



CAPITAL PROJECTS PLAN

FY 2015/2016 - 2019/2020

Sonoma County Water Agency

Overview

Our Mission:

The Sonoma County Water Agency (Water Agency), a special district, was created in 1949 by an act of the California State Legislature. The Water Agency is a wholesale supplier of water to parts of Sonoma and Marin counties; provides flood control services and sanitation services; and has the authority to generate electricity and provide recreational facilities in connection with its facilities. Environmental regulations impacting its core functions have resulted in the Water Agency actively engaged in natural resource (e.g., fisheries, wetlands, etc.) protection, recovery, and enhancement. The Water Agency is implementing the Russian River Biological Opinion, issued by the National Marine Fisheries Service in September 2008, to improve operations for the benefit of endangered coho salmon and threatened steelhead and Chinook salmon.

Mission Statement:

Securing our future by investing in our Water Resources, Environment and Community.

This mission statement and the Water Agency's values are reflected in its Strategic Plan – a five year plan of goals and strategies to address the Water Agency's most pressing needs in the areas of Organizational Operations, Sanitation, Water Supply, Energy and Flood Control. This plan guides the Water Agency as it addresses the challenges it faces in pursuing its mission. The projects in this Capital Projects Plan are derived from the objectives in the Water Agency's Strategic Plan (www.scwa.ca.gov/strategicplan/) and from its Water Supply Strategies Action Plan, which is updated regularly (www.scwa.ca.gov/water-supply-strategy).

Agency Objectives

Water Transmission and Supply Systems:

The Water Agency provides high quality drinking water to more than 600,000 people in Sonoma and northern Marin counties. From its large collector wells near the Russian River, the Water Agency distributes naturally filtered water to the cities of Santa Rosa, Rohnert Park, Cotati, Petaluma and Sonoma; the Town of Windsor; and Valley of the Moon and North Marin water districts. These cities and water districts (water contractors) distribute the water to residents and businesses.

The Water Agency's transmission and supply goals as outlined in the 2013 strategic plan include: (1) work with water contractors to retain and improve the reliability of the water supply production and distribution systems, including short-term emergencies, such as earthquakes, and during long-term challenges caused by extended droughts and global climate change; (2) protect the Agency's existing water rights and our clean, high-quality water supply and improve system resiliency by continuing to develop alternative supplies; and (3) maintain stable water supply revenue source and improve operational efficiencies.

Sanitation Systems:

The Water Agency manages and operates eight different sanitation districts and zones throughout Sonoma County that serve more than 50,000 people. These include the Sonoma Valley, Russian River, Occidental and South Park County sanitation districts and the Geyserville, Penngrove, Sea Ranch and Airport-Larkfield-Wikiup sanitation zones. High-quality tertiary treated recycled water is an important source of water that helps offset potable water demands.

The Agency's sanitation goals as outlined in the 2013 strategic plan include: (1) meet or exceed environmental regulations and public health standards; and (2) provide adequate rate-based revenues, while pursuing new income and cost-cutting opportunities.

Flood Control:

Flood risks in most communities in Sonoma County have been reduced through the construction of flood protection facilities which include flood control channels and stormwater detention reservoirs. The Water Agency maintains these flood protection facilities in a manner that balances public safety and environmental needs.

The Water Agency's flood control goal as outlined in the 2013 strategic plan requires maintaining, operating, and modifying flood protection facilities to meet current and future public needs.

Purpose and Background of Funds

The Water Agency's Capital Projects Plan identifies projects to be constructed over the next five years and designed to meet the Water Agency's mission and strategic objectives.

Water Transmission:

In order to reliably, safely, and efficiently supply potable water to its eight water contractors, the Water Agency plans, performs environmental reviews, designs, and constructs capital improvement projects. The expansion and improvement of the water transmission system is included in the terms and conditions of the Restructured Agreement for Water Supply (Agreement) between the Water Agency and its water contractors. The water contractors' Water Advisory Committee (WAC) and/or Technical Advisory Committee (TAC) meets regularly (WAC quarterly and TAC monthly) with the Water Agency to discuss the scheduling and financing of water transmission system projects and other water supply and transmission system issues.

Capital improvements made to the water transmission system are typically funded from the Storage Facilities Fund, the Pipeline Facilities Funds, and the Common Facilities Fund to meet the needs of the water contractors for the facilities identified under the Agreement. Capital projects have been scheduled to accommodate funding limitations, to provide the least disruption to existing facilities and water contractors, and to allow an orderly and timely start-up to meet the conditions of the Agreement or any new laws or regulations governing drinking water suppliers.

Water Supply:

The Water Supply funds include the Russian River Projects Fund, the Recycled Water Fund and the Warm Springs Dam Fund. These three funds are used: (1) to pay the costs for water supply and erosion control activities along the Russian River arising from assurances given by the Water Agency for the construction of the Coyote Valley Dam Project and Warm Springs Dam Project; (2) to pay the costs incurred by the Water Agency in securing and defending its appropriative water rights necessary for the realization of the full benefit of those projects; (3) to pay the costs incurred by the Water Agency in operating the Coyote Valley Dam and Warm Springs Dam Projects; (4) to pay the costs for water supply issues arising from activities of the Potter Valley Project; and (5) for fishery enhancement programs to ensure compliance with environmental regulations and pay for recycled water projects.

Special Revenue Funds–Flood Control Zones:

The Special Revenue Funds described below are used to construct and improve flood control facilities and to provide program support services for the flood control zones in Sonoma County. Common types of features constructed to help alleviate flooding are channelization works, bypass conduit systems, diversion and detention systems. In addition, natural systems are maintained to provide flood control capacity. Sonoma County is divided into nine major watershed areas. Flood control zones were created encompassing eight of these watersheds. Zone 1A (Laguna-Mark West), Zone 2A (Petaluma River), and Zone 3A (Valley of the Moon/Upper Sonoma Creek) have the most active flood control programs. Zone 4A (Upper Russian River) and Zone 6A (Dry Creek) are completely inactive. Zone 5A (Lower Russian River) and Zone 8A (South Coastal) are less active than Zones 1A, 2A, and 3A, with only ongoing maintenance of existing facilities being performed. Zone 7A (North Coastal) has minimal fund reserves earning interest. The ninth watershed area, covering the lower portions of Sonoma Creek and the Petaluma River, was never established as a zone.

Flood control zones were created to reduce the frequency of flooding within the zone through construction of facilities to safely handle projected storm flows. An appointed advisory committee for each active zone meets regularly to make recommendations to the Water Agency's Board of Directors regarding priorities for flood protection projects within each zone. Proposed projects are evaluated in consideration of historical flooding problems, areas benefited, alternative funding available, special safety and health factors, coordination with other public projects, and environmental concerns.

Flood Control Zone 1A is the watershed area that drains into and includes the Laguna de Santa Rosa and Mark West Creek.

Flood Control Zone 2A is the watershed area in Sonoma County that drains into and includes the Petaluma River, with the exception of the most southerly portion of the area, which consists primarily of reclaimed tidelands.

Flood Control Zone 3A is the watershed area in Sonoma County that drains into and includes Sonoma Creek, generally north of Highway 121.

The primary funding source for all three Zones is an ad valorem property tax. In the past, capital projects in Zone 1A and 2A were also funded by a voter-approved 10-year benefit assessment program for flood control, which ended June 30, 2007. Some additional funds are sometimes available from cities, the County, and community development sources to construct flood control projects. In more recent years, grants from state bond measures have also been a source of funding for flood control projects.

Sanitation:

The Water Agency owns and operates four sanitation zones, which include Airport-Larkfield-Wikiup, Geyserville, Penngrove, and Sea Ranch. The Water Agency is also responsible for the overall management (including operation) of four County Sanitation Districts. The four districts include Occidental, Russian River, Sonoma Valley, and South Park. Each County Sanitation District exists as a separate legal entity. The sanitation zones operate as zones of benefit, similar to the Water Agency's flood control zones. Sanitation projects are scheduled according to the specific needs for each zone or district. Funding of projects may be accomplished by Federal and/or State grants, state revolving fund loans, certificates of participation, notes, revenue bonds, or on a pay-as-you-go basis.

Airport-Larkfield-Wikiup Sanitation Zone:

The Airport-Larkfield-Wikiup Sanitation Zone (Airport S.Z.) treatment facility was originally designed as a zero discharge facility with the ability to treat wastewater to secondary wastewater treatment standards. The treatment facility was initially constructed in 1983 and has been expanded twice since then (1989 and 1997). Tertiary filters were installed at the treatment facility in 2005 allowing expanded use of the recycled water produced by the Airport Sanitation Zone. The treatment facility currently has a dry weather capacity of 0.9 million gallons per day ("m.g.d."). The Water Agency has initiated a study to update its sewer master plan and collection system modeling for the Airport S.Z.

Geyserville Sanitation Zone:

The Geyserville Sanitation Zone (Geyserville S.Z.) treatment facility became operational in 1981 and is designed to treat an average dry weather flow of up to 92,000 gallons per day. The current and future treatment facility inflows are expected to remain less than the treatment and disposal capacity of the Geyserville S.Z. facilities.

Occidental County Sanitation District:

The Occidental County Sanitation District (OCSD) treatment plant first became operational in 1950 and was upgraded in 1970 and 1975. The plant is designed to treat an average daily dry weather flow of up to 50,000 gallons per day to secondary treatment standards. Each year, between October 1 and May 14, treated wastewater from the OCSD is discharged into Dutch Bill Creek under a permit from the North Coast Regional Water Quality Control Board (NCRWCB). During the balance of the year, treated wastewater is used for irrigation.

The OCSD faces serious financial and operational difficulties. Due to the district's small ratepayer base, operating revenues are not sufficient to fund ongoing operations, maintenance and administrative activities. The Water Agency annually subsidizes from its General Fund the OCSD. In addition, the OCSD is under a cease and desist order from the NCRWCB to end discharges of secondary treated wastewater into Dutch Bill Creek by 2018. A process is underway to identify alternatives.

The ability to increase rates in this district is limited, and funding for the selected project will be financed mostly through outside funding. The projects in this section of the plan meet the objectives in Sanitation Goals and Strategies in the Water Agency's Strategic Plan.

Penngrove Sanitation Zone:

Water Agency operations in the Penngrove Sanitation Zone (Penngrove S.Z.) are limited to administrative services and operation/maintenance of the collection system and pumping station. The wastewater collected by the Penngrove S.Z. collection system flows through the City of Petaluma's collection system to the City of Petaluma's wastewater treatment facility where it is treated to meet tertiary standards.

Russian River County Sanitation District:

The Russian River County Sanitation District (RRCSD) treatment plant was completed in September of 1980 and began operating in 1982. The RRCSD treatment plant is designed to treat an average dry weather flow (ADWF) of up to 0.71 mgd to advanced (tertiary) wastewater treatment standards. The RRCSD has an easement on approximately 77 acres of forest area adjacent to the treatment plant (referred to as the Burch property). Seventeen acres of the easement are best suited for irrigation purposes and are currently used for spray irrigation. In addition, approximately 43 acres of turf at the Northwood Golf Course are irrigated with tertiary treated wastewater. Expansion of the dry weather disposal area is necessary in order to ensure adequate disposal of dry weather inflow.

The treatment plant has historically experienced operational difficulties associated with major flooding on the Russian River. Soon after the Water Agency assumed operations of the facility in 1996, engineering and environmental documentation began to address operational problems associated with Russian River flood events, the irrigation system, and obsolete equipment at the RRCSD treatment plant.

The NCRWQCB adopted a series of enforcement orders for the RRCSD in response to violations associated with flood events. In response, the RRCSD began implementation of a series of short- and long-term projects aimed at bringing the facility into compliance. The facility was brought into compliance with the completion of the Third Unit Process project in early 2005. This project, along with modifications to the lift station operations during flooding events in the Guerneville area, allows the treatment plant to pass all influent through the full treatment process. This was not possible during flood events prior to completion of the Third Unit Process Project.

In an effort to eliminate the discharge of treated wastewater containing chlorine-based disinfection by-products into the Russian River, the District, in 2012, upgraded its treatment facility to utilize ultraviolet disinfection technology. In 2014, the treatment facilities were further enhanced to reduce nitrogen and phosphorus based nutrient discharges to the Russian River.

In addition, RRCSD has initiated a study to update its sewer master plan and collection system modeling.

Sea Ranch Sanitation Zone:

The Sea Ranch Sanitation Zone (Sea Ranch S.Z.) consists of two wastewater collection and treatment systems located in Central and North Sea Ranch. The Central and North treatment facilities both provide treatment to secondary wastewater treatment standards.

These collection and disposal systems operate independently and are isolated from each other. The Central and North treatment facilities are designed to treat average daily dry weather flows of up to 27,000 and 160,000 gallons per day, respectively. Treated wastewater from the Central treatment facility is disposed of through irrigation on land that is adjacent to the treatment facility. C u r r e n t l y , t h e North treatment facility pumps raw wastewater to the Gualala Community Services District's (GCSD) wastewater treatment facility where it is combined with GCSD influent and treated to tertiary standards. The combined effluent of North and GCSD's treatment facility is disposed of through irrigation on the Sea Ranch Golf Links. The Sea Ranch Water Company is under contract to operate and maintain the SRSZ facilities for the Water Agency.

The Water Agency and The Sea Ranch Association, owner of the Sea Ranch Water Company, continue to investigate options for the continued operation of the Sea Ranch S.Z. Options being considered include executing an agreement between the Water Agency and the Sea Ranch Association for the continued operation of the sewer facilities and/or the transfer of all assets, liabilities, and management responsibilities to the Association.

Sonoma Valley County Sanitation District:

The Sonoma Valley County Sanitation District (SVCSD) provides sewage collection, tertiary level treatment of wastewater, and disposal service for the Sonoma Valley area. Wastewater is collected by a gravity system and flows to the SVCSD wastewater treatment facility for processing. Recycled water is used to irrigate local crops during the summer. During the winter, treated wastewater is provided to the Napa-Sonoma Salt Ponds for environmental restoration of the ponds, or is otherwise discharged to San Pablo Bay via Schell Slough and Hudeman Slough. The SVCSD treatment facility is permitted to treat an average daily dry weather flow of up to 3.0 million gallons per day.

In April 2002, the SVCSD completed a wet weather overflow prevention study (a study that complied with a San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) issuance of a Notice of Violation for sewer system overflows in April of 1999). This study identified areas within the SVCSD collection system where repair and/or replacement projects were most needed, including numerous trunk main and collection system projects. The SVCSD has implemented a capital replacement program with the long-term intent of replacing these pipeline sections.

In 2012, construction was completed on a new 100 acre-foot storage pond for recycled water. This pond, which was funded by a combination federal Bureau of Reclamation and district funds, allows recycled water to be used for increased agricultural irrigation, restoration of the Napa-Sonoma salt marsh, and urban uses. In addition, in 2013, construction was completed on the 2,400 foot Napa

Sonoma Salt Marsh pipeline, which allowed delivery of 1,700 acre feet annually of recycled water to help restore a 640-acre former salt pond. In 2014, construction was completed on a new sludge dewatering facility that reduces the District's expenses for disposing of biosolids.

In addition, SVCSD has initiated a study to update its sewer master plan and collection system modeling.

South Park County Sanitation District:

The South Park County Sanitation District (SPCSD) provides service to the South Park area using a gravity collection system that discharges to the City of Santa Rosa's collection system. Wastewater from SPCSD is treated and disposed of by the City of Santa Rosa at the Laguna Sub-regional Treatment Plant on Llano Road. In July of 1996, the City of Santa Rosa accepted responsibility for the operation and routine maintenance of the collection system.

An agreement for transfer of responsibility to the City of Santa Rosa of collection system operation and maintenance, and subsequent dissolution of the SPCSD, was finalized on February of 1996. The agreement has been amended several times in the subsequent years. Under this agreement the SPCSD was to be dissolved and transferred to the City of Santa Rosa, subject to certain conditions that included the replacement, slip-line, or repair of 41,610 feet of the collection system and upgrade of the Todd Road lift station before transfer of the SPCSD to the City of Santa Rosa.

In 2012, an amended and restated agreement recognized that dissolution of the District and transfer to the City of Santa Rosa could not occur without annexation by the City, and therefore, a specific schedule for dissolution was removed from the agreement, along with specific targets for collection system improvements. Nonetheless, the District and City are continuing to work collaboratively in addressing needed collection system upgrades with the understanding that dissolution and transfer to the City will ultimately occur.

On December 22, 1998, the NCRWQCB released a draft Cleanup and Abatement Order (CAO) for halogenated volatile organic compounds (HVOCs) found in soil and groundwater in the vicinity of Sebastopol Road and West Avenue in the SPCSD service area. The draft CAO specified that HVOCs found in the soil and groundwater are the result of a release from the SPCSD collection system. Potential costs for investigation, remediation, and legal work related to HVOCs in soil and groundwater are substantial (\$2-10 million) and have not been included in this capital plan. Rather than finalize the draft CAO, the SPCSD, County of Sonoma, and the NCRWQCB entered into a cooperative agreement in July of 1999 referred to as the “Plan of Action for HVOC Investigation and Mitigation in the Roseland Area” (Plan of Action). As part of the Plan of Action, SPCSD has performed an investigation of the extent of HVOCs in groundwater in the vicinity of West Avenue and Sebastopol Road. A final report summarizing the results of this investigation was submitted to the NCRWQCB in February of 2002. The SPCSD and the County of Sonoma have been working with the NCRWQCB to coordinate groundwater studies by other parties for related groundwater contamination issues in the Roseland area. Upon completion of these studies, it is anticipated that remediation strategies will be developed by the SPCSD, County of Sonoma, NCRWQCB, and other parties associated with these groundwater issues.

Administration and General:

These funds include the General Fund, the Spring Lake Park Fund, and the Sustainability-Renewable Energy Fund. The Spring Lake Park Fund provides for occasional construction projects in Spring Lake Park. Spring Lake Park is a public park owned by the Water Agency and operated under contract by the Sonoma County Regional Parks Department. The Sustainability-Renewable Energy Fund provides for the Agency’s Renewable Energy, Efficiency and Sustainability efforts.

Internal Service:

The Internal Service Fund provides for: (1) building improvements to the Administration building at the Agency’s 404 Aviation Boulevard site; (2) building improvements to the Operations and Maintenance facility at 204 Concourse Blvd; (3) building improvements to the Service Center facility located at the Airport Treatment Plant; (4) building improvements to the former Administration, Service Center, and Operations and Maintenance facilities at the Water Agency’s West College Avenue site; (5) funding of new building sites and other land purchases; and (6) electric power development and sales for the various enterprises owned and managed by the Water Agency.

Funding Source Report (Amounts rounded to 000's) -

| Division/Section | Funding Source | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future Yrs | Project Total |
|---|------------------------------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission System - Common Facilities Fund | | 6,006 | 23,692 | 7,931 | 12,672 | 3,959 | 15,039 | 26,486 | 66,086 | 6,100 | 101,884 |
| | Water Transmission | 1,934 | 7,727 | 2,350 | 2,157 | 3,859 | 15,039 | 26,486 | 49,890 | 6,100 | 65,651 |
| | Water Transmission, CDFW | 2,447 | 14,345 | 1,500 | 0 | 0 | 0 | 0 | 1,500 | 0 | 18,292 |
| | Water Transmission, FEMA PDM | 1,625 | 1,621 | 4,081 | 10,515 | 100 | 0 | 0 | 14,696 | 0 | 17,942 |
| Water Transmission System - Common Facilities Fund/General Fund | | 559 | 2,297 | 80 | 0 | 0 | 0 | 0 | 80 | 0 | 2,936 |
| | General Fund | 254 | 1,702 | 80 | 0 | 0 | 0 | 0 | 80 | 0 | 2,036 |
| | Water Transmission | 305 | 595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 900 |
| Water Transmission System - Pipeline Fund | | 274 | 525 | 6,310 | 440 | 4,750 | 4,700 | 4,300 | 20,500 | 10,550 | 31,849 |
| | Water Transmission | 274 | 525 | 6,310 | 440 | 4,750 | 4,700 | 4,300 | 20,500 | 10,550 | 31,849 |
| Water Transmission System - Storage Fund | | 1,029 | 683 | 25 | 1,100 | 0 | 0 | 0 | 1,125 | 0 | 2,838 |
| | Water Transmission | 545 | 633 | 0 | 1,100 | 0 | 0 | 0 | 1,100 | 0 | 2,279 |
| | Water Transmission, CalTrans | 485 | 50 | 25 | 0 | 0 | 0 | 0 | 25 | 0 | 560 |
| Water Transmission System - O&M Fund | | 689 | 1,285 | 2,275 | 1,290 | 2,200 | 1,450 | 3,500 | 10,715 | 100 | 12,790 |
| | Water Transmission | 689 | 1,285 | 2,275 | 1,290 | 2,200 | 1,450 | 3,500 | 10,715 | 100 | 12,790 |
| Water Supply - Warm Springs Dam | | 9,068 | 856 | 3,883 | 8,823 | 3,161 | 0 | 0 | 15,867 | 0 | 25,791 |
| | Other | 9,068 | 856 | 3,883 | 8,823 | 3,161 | 0 | 0 | 15,867 | 0 | 25,791 |
| Zone 1A Flood Control | | 712 | 271 | 275 | 436 | 69 | 0 | 0 | 780 | 0 | 1,763 |
| | Zone 1A | 113 | 50 | 0 | 236 | 69 | 0 | 0 | 305 | 0 | 468 |
| | Zone 1A, DWR | 599 | 221 | 275 | 200 | 0 | 0 | 0 | 475 | 0 | 1,295 |
| Zone 2A Flood Control | | 19 | 1,404 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 1,924 |
| | Zone 2A | 0 | 648 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 1,148 |

| Division/Section | Funding Source | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future Yrs | Project Total |
|--|--------------------------------------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| | Zone 2A, DWR | 19 | 756 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 776 |
| Zone 3A Flood Control | | 770 | 1,280 | 0 | 2,500 | 300 | 0 | 0 | 2,800 | 0 | 4,850 |
| | Zone 3A | 288 | 391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 679 |
| | Zone 3A, DWR | 482 | 889 | 0 | 2,500 | 300 | 0 | 0 | 2,800 | 0 | 4,171 |
| Airport-Larkfield-Wikiup Sanitation Zone | | 34 | 600 | 500 | 0 | 200 | 0 | 0 | 700 | 200 | 1,534 |
| | ALWSZ | 34 | 600 | 500 | 0 | 200 | 0 | 0 | 700 | 200 | 1,534 |
| Geyserville Sanitation Zone | | 0 | 0 | 115 | 15 | 15 | 15 | 15 | 175 | 30 | 205 |
| | GSZ | 0 | 0 | 115 | 15 | 15 | 15 | 15 | 175 | 30 | 205 |
| Occidental County Sanitation Dist. | | 319 | 775 | 700 | 4,600 | 325 | 0 | 0 | 5,625 | 0 | 6,719 |
| | OCSD | 319 | 775 | 700 | 4,600 | 325 | 0 | 0 | 5,625 | 0 | 6,719 |
| Pennngrove Sanitation Zone | | 0 | 0 | 285 | 385 | 30 | 30 | 30 | 760 | 60 | 820 |
| | PSZ | 0 | 0 | 285 | 385 | 30 | 30 | 30 | 760 | 60 | 820 |
| Russian River County Sanitation Dist. | | 681 | 130 | 230 | 230 | 230 | 230 | 230 | 1,150 | 13,000 | 14,961 |
| | Other | 681 | 30 | 30 | 30 | 30 | 30 | 30 | 150 | 8,700 | 9,561 |
| | RRCSD | 0 | 100 | 200 | 200 | 200 | 200 | 200 | 1,000 | 4,300 | 5,400 |
| Sea Ranch Sanitation Zone | | 0 | 40 | 40 | 40 | 40 | 40 | 40 | 200 | 0 | 240 |
| | SRSZ | 0 | 40 | 40 | 40 | 40 | 40 | 40 | 200 | 0 | 240 |
| Sonoma Valley County Sanitation Dist. | | 2,623 | 6,593 | 4,456 | 5,775 | 6,395 | 5,640 | 5,400 | 27,666 | 11,650 | 48,532 |
| | Other | 0 | 0 | 0 | 400 | 2,000 | 0 | 0 | 2,400 | 0 | 2,400 |
| | SVCSD | 1,783 | 4,602 | 1,755 | 5,290 | 4,395 | 5,640 | 5,400 | 22,481 | 11,650 | 40,516 |
| | SVCSD, BOR | 618 | 1,806 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 2,624 |
| | SVCSD, DWR | 222 | 185 | 2,500 | 85 | 0 | 0 | 0 | 2,585 | 0 | 2,992 |
| South Park County Sanitation Dist. | | 340 | 2,571 | 0 | 425 | 3,000 | 140 | 0 | 3,565 | 0 | 6,476 |
| | SPCSD | 340 | 2,571 | 0 | 425 | 3,000 | 140 | 0 | 3,565 | 0 | 6,476 |
| General Fund | | 183 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 295 |
| | Sustainability-Renewable Energy Fund | 183 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 295 |

| Division/Section | Funding Source | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future Yrs | Project Total |
|------------------------|-----------------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Internal Services Fund | | 923 | 2,166 | 963 | 200 | 201 | 320 | 320 | 2,004 | 320 | 5,413 |
| | Facilities Fund | 916 | 1,801 | 0 | 200 | 201 | 320 | 320 | 1,041 | 320 | 4,078 |
| | Power Resources | 7 | 365 | 963 | 0 | 0 | 0 | 0 | 963 | 0 | 1,335 |
| Grand Total: | | 24,229 | 45,171 | 28,680 | 38,932 | 24,875 | 27,604 | 40,321 | 160,411 | 42,010 | 271,822 |

Water Transmission System

Current Five-Year Plan:

This five-year plan includes funding for 44 projects related to the water transmission system. This list of projects also includes construction projects required by the Biological Opinion. The projects identified in this section of the plan meet the objectives in Water Supply Goals and Strategies of the Water Agency's Strategic Plan.

Changes from Prior Plans:

Common Facilities:

Twelve new projects, consisting of Collectors 3, 4, and 5 Pump Discharge Valves, Collector 5 Motor and Discharge Head Replacements, Collector 6 Valves Vault, Mirabel Chlorine Building Water Line, Mirabel Chlorine Lines Replacement, Mirabel Storage Building, pH Pump Replacement, RDS Pumps Replacement, Seismic Hazard Mitigation at River Diversion Structure – Structural, Wohler Motor Replacements, SCADA Software and Hardware, and SCADA Upgrade, were added to the F.Y. 2015-16 through F.Y. 2019-20 capital plan for Common Facilities. The formerly identified Air Valve Replacements project will be complete in 2015.

Pipeline Facilities:

One new project, Calabasas Creek Crossing, was added to the F.Y. 2015-16 through F.Y. 2019-20 capital plan for Pipeline Facilities.

Storage Facilities:

No new projects were added to the F.Y. 2015-16 through F.Y. 2019-20 capital plan for Storage Facilities. The formerly identified Oakmont Pipeline Replacement project was completed in 2014, and the Central Reliability Booster Pump Station has been withdrawn pending construction of the Kawana to SBS Pipeline.

Agency Fund:

No new projects were added to the F.Y. 2015-16 through F.Y. 2019-20 capital plan for Water Agency Fund. The formerly identified River Diversion Structure Liquefaction Mitigation project was completed in 2014.

Collector 3 & 5 Liquefaction Mitigation

Request #: WA04048

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2010
End Date: 06/30/2020

Description:

The project will address potential for structural failure by mitigating the potential for liquefaction induced lateral spread by ground improvements, structural upgrades, or through a combination of approaches. This project increases the factor of safety for future seismic events.



| Project Cost | | O and M Cost | |
|-----------------------|---------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 10,033 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,099 | | |
| Other: | 313 | | |
| Project Total: | 11,445 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|------------|------------|-------------|-------------|-------------|--------------|--------------|---------------|------------|---------------|
| Water Transmission | 33043200 | 453 | 592 | 0 | 200 | 200 | 5,000 | 5,000 | 10,400 | 0 | 11,445 |
| TOTALS: | | 453 | 592 | 0 | 200 | 200 | 5,000 | 5,000 | 10,400 | 0 | 11,445 |

All Values are presented in Thousands (1 x 1000)

Collector 3, 4, 5 Pump Discharge Valves

Request #: WA15009

Status: Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Request |
| Department: | Water Agency | Start Date: | 07/01/2015 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2016 |

Description:

The hydraulic pump discharge valves are coming to the end of their useful life. The hydraulic valves are oil driven valves and need to be replaced with water actuated Cla-Val type, pump discharge valves. The hydraulic valves use electricity for the compressors that provide the air over fluid pressure and hydraulic fluid to drive the pistons that open and close the pump discharge valves. By eliminating the compressors and hydraulic fluid, we will save money on electricity and decrease the chance of contamination to the water system, with hydraulic fluid.

The plan is to retrofit (2) valves per year, in each Caisson, for a total of (6) valves in three years.



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 570 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 30 | | |
| Other: | 0 | | |
| Project Total: | 600 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|-------------------|
| Personnel: 0 |
| Revenue/Refund: 0 |

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 200 | 200 | 0 | 200 | 0 | 600 | 0 | 600 |
| TOTALS: | | 0 | 0 | 200 | 200 | 0 | 200 | 0 | 600 | 0 | 600 |

All Values are presented in Thousands (1 x 1000)

Collector 5 Motor & Discharge Head Replacements

Request #: WA15006

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2016
End Date: 06/30/2018

Description:

Two motors and discharge heads in Collector #5 are coming to the end of their useful life. The motors are 30 years old and are a different brand and base size than the rest of the motors at Mirabel. The motors also weigh 60% more than other motors which makes it more difficult to change them out in an emergency (requiring specific rigging and tools). Since the present motors have a different base size and configuration to them, installation of an adapter plate between the motor and discharge head is necessary in order to use any other type of motor.

The project will change out the discharge heads to the standard configurations that are used in the other collector wells and purchase new high efficiency motors that are the same configuration as the motors, used in the other Collectors.



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 480 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 20 | | |
| Other: | 0 | | |
| Project Total: | 500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33093200 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 |
| TOTALS: | | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 |

All Values are presented in Thousands (1 x 1000)

Collector 6 Valves Vault

Request #: WA15008

Status: Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Active |
| Department: | Water Agency | Start Date: | 07/01/2014 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2016 |

Description:

The Collector 6 valve vault project will install a new vault around two existing shutoff valves located along the 20" and 24" discharge pipes at Collector 6. The new vault is required to facilitate needed repairs and maintenance on the valves.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 225 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 25 | | |
| Other: | 0 | | |
| Project Total: | 250 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|--------------------------|
| Personnel: 0 |
| Revenue/Refund: 0 |

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 150 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 250 |
| TOTALS: | | 0 | 150 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 250 |

All Values are presented in Thousands (1 x 1000)

Emergency Wells (Hazard Reliability Water Supply)

Request #: WA14001

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund
Status: Request
Start Date: 07/01/2017
End Date: 06/30/2021

Description:

The purpose of this project is to construct emergency water supply wells in close proximity to the Water Agency's transmission system that could be activated in response to a natural hazard event that has isolated portions of the Water Agency's service area from the Russian River diversion facilities. The cost estimate preliminarily assumes the installation of two to three wells at locations that are not currently known.



| Project Cost | | O and M Cost | |
|------------------|-------|--------------|---|
| Acquisition: | 250 | Utilities: | 0 |
| Construction: | 3,750 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 750 | | |
| Other: | 250 | | |
| Project Total: | 5,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 0 | 0 | 333 | 333 | 333 | 1,000 | 4,000 | 5,000 |
| TOTALS: | | 0 | 0 | 0 | 0 | 333 | 333 | 333 | 1,000 | 4,000 | 5,000 |

All Values are presented in Thousands (1 x 1000)

Mirabel - River Road Fiber Optic Line

Request #: WA14009

Status: Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Active |
| Department: | Water Agency | Start Date: | 07/01/2013 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2016 |

Description:

Install new fiber optic cable within existing conduit (abandoned chlorine solution line), between River Road Chlorine building and Collector 5, in order to upgrade the information and signal expansion that is needed for the Wohler and Mirabel area.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 50 | | |
| Other: | 0 | | |
| Project Total: | 250 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|---|
| Personnel: 0 Revenue/Refund: 0 |
|---|

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| TOTALS: | | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |

All Values are presented in Thousands (1 x 1000)

Mirabel Chlorine Building Water Line

Request #: WA15010

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2015
End Date: 06/30/2017

Description:

Construct new waterline for Collector well No. 3 to service the Mirabel Chlorination Building.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 140 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 10 | | |
| Other: | 0 | | |
| Project Total: | 150 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 150 | 0 | 150 |
| TOTALS: | | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 150 | 0 | 150 |

All Values are presented in Thousands (1 x 1000)

Mirabel Chlorine Lines Replacement

Request #: WA15011

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2016

Description:

Replace the existing chlorine solution pipelines that have reached the end of their useful life at the Mirabel Production Facility



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 175 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 50 | | |
| Other: | 25 | | |
| Project Total: | 250 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 |
| TOTALS: | | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 |

All Values are presented in Thousands (1 x 1000)

Mirabel Storage Building

Request #: WA15012

Status: Funded

Function: Development Services

Status: Request

Department: Water Agency

Start Date: 07/01/2015

Division/Section: Water Transmission System - Common Facilities Fund

End Date: 06/30/2016

Description:

Provide a pre-engineered metal storage building at the Mirabel site for maintenance related operations.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 180 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 50 | | |
| Other: | 20 | | |
| Project Total: | 250 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0

Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 |
| TOTALS: | | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 |

Mirabel Surge Tanks

Request #: WA08053

Status: Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Active |
| Department: | Water Agency | Start Date: | 07/01/2012 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2018 |

Description:

To reduce the risks of pipeline ruptures/leaks due to transient pressures in the water transmission system following power failures, construct surge control system at the Mirabel production facilities, including three 8,000 gallon surge tanks and appurtenant equipment and controls.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 1,770 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 352 | | |
| Other: | 195 | | |
| Project Total: | 2,317 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|--------------------------|
| Personnel: 0 |
| Revenue/Refund: 0 |

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 17 | 200 | 0 | 100 | 2,000 | 0 | 0 | 2,100 | 0 | 2,317 |
| TOTALS: | | 17 | 200 | 0 | 100 | 2,000 | 0 | 0 | 2,100 | 0 | 2,317 |

All Values are presented in Thousands (1 x 1000)

pH Pump Replacement

Request #: WA15013

Status: Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Active |
| Department: | Water Agency | Start Date: | 07/01/2014 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2016 |

Description:

Upgrade the pumps and PLC in both Wohler and Mirabel caustic soda (pH) buildings, to make them more efficient and program-compatible with forthcoming electronic and SCADA master plans. The pumps and PLC will replace existing equipment.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 190 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 10 | | |
| Other: | 0 | | |
| Project Total: | 200 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|---|
| Personnel: 0 Revenue/Refund: 0 |
|---|

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 32003200 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 200 |
| TOTALS: | | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 200 |

All Values are presented in Thousands (1 x 1000)

RDS Pumps Replacement

Request #: WA15014

Status: Funded

| | |
|---|-------------------------------|
| Function: Development Services | Status: Active |
| Department: Water Agency | Start Date: 07/01/2014 |
| Division/Section: Water Transmission System - Common Facilities Fund | End Date: 07/01/2016 |

Description:

Replace the three pumps, and associated pump column piping, with new high efficient pumps to ensure reliability in the RDS building. These pumps are used to pump water to the settling and infiltration ponds.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 450 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 50 | | |
| Other: | 0 | | |
| Project Total: | 500 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|---|
| Personnel: 0 Revenue/Refund: 0 |
|---|

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 350 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 500 |
| TOTALS: | | 0 | 350 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 500 |

All Values are presented in Thousands (1 x 1000)

System-wide Meter Replacements

Request #: WA08056

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2016



Description:

To comply with regulations limiting material constituents contained within infrastructure that is in direct contact with drinking water, replace 150-175 flow meters throughout the water transmission system.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,203 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 11 | | |
| Other: | 0 | | |
| Project Total: | 2,213 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|--------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33043200 | 1,463 | 450 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 2,213 |
| TOTALS: | | 1,463 | 450 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 2,213 |

All Values are presented in Thousands (1 x 1000)

Wohler Motor Replacements

Request #: WA15015

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

Purchase new replacement, high efficiency electric motors for existing Collectors 1 & 2 pumps.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 320 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 30 | | |
| Other: | 0 | | |
| Project Total: | 350 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| TOTALS: | | 0 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |

All Values are presented in Thousands (1 x 1000)

Mirabel Fish Screen and Fish Ladder Replacement

Request #: WA09057

Status: Funded/Funded by Others

Function: Development Services

Status: Active

Department: Water Agency

Start Date: 07/01/2008

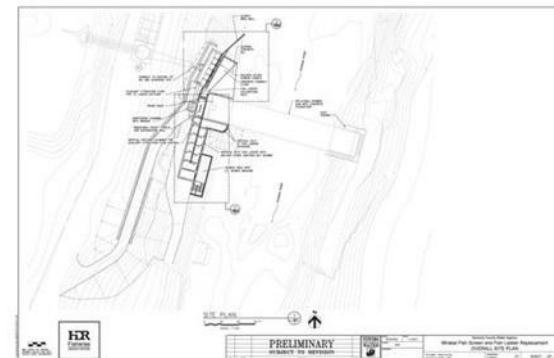
Division/Section: Water Transmission System - Common Facilities Fund

End Date: 6/30/2016

Description:

This multi-element project at the Mirabel Diversion Facilities will replace the fish screen as required by the 2008 NMFS Biological Opinion; upgrade the fish ladder to contemporary standards; enhance monitoring, viewing, and educational opportunities; and improve access for operational and maintenance purposes and ADA compliance.

Replacement of the Fish Screen is required by the 2008 NMFS Biological Opinion (BO) in order to avoid impingement or stranding of listed salmonids. A modified fish ladder will provide attractive flow to fish, eliminating delays in fish passage due to unattractive flow conditions over the Mirabel Inflatable Dam and eliminating the need to alter dam inflation to accommodate fish passage.



| Project Cost | | O and M Cost | |
|-----------------------|---------------|------------------|----------|
| Acquisition: | 58 | Utilities: | 0 |
| Construction: | 15,672 | Maintenance: | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 2,052 | | |
| Other: | 367 | | |
| Project Total: | 18,149 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------------|---------|--------------|---------------|--------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission, CDFW | 675421 | 2,447 | 14,345 | 1,500 | 0 | 0 | 0 | 0 | 1,500 | 0 | 18,292 |
| TOTALS: | | 2,447 | 14,345 | 1,500 | 0 | 0 | 0 | 0 | 1,500 | 0 | 18,292 |

All Values are presented in Thousands (1 x 1000)

Isolation Valve Seismic Hazard Mitigation

Request #: WA09052

Status: Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund
Status: Active
Start Date: 07/01/2009
End Date: 06/30/2017

Description:

Install additional isolation valves at strategic locations throughout the water supply transmission system to enhance system reliability following a seismic event. The project will facilitate repairs in the event of a rupture.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 485 | Utilities: | 0 |
| Construction: | 3,808 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 748 | | |
| Other: | 62 | | |
| Project Total: | 5,104 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|------------------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission, FEMA PDM | 33043200 | 223 | 820 | 3,560 | 500 | 0 | 0 | 0 | 4,060 | 0 | 5,104 |
| TOTALS: | | 223 | 820 | 3,560 | 500 | 0 | 0 | 0 | 4,060 | 0 | 5,104 |

All Values are presented in Thousands (1 x 1000)

Seismic Hazard Mitigation at the Mark West Creek Crossing

Request #: WA09051

Status: Funded by Others

Function: Development Services

Status: Active

Department: Water Agency

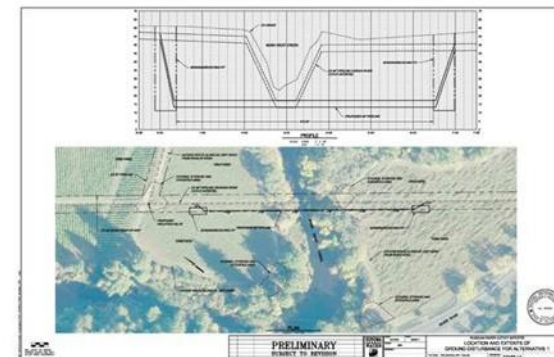
Start Date: 07/01/2012

Division/Section: Water Transmission System - Common Facilities Fund

End Date: 06/30/2017

Description:

Project will mitigate pipe failure due to seismic induced ground deformation by installing a new pipeline crossing below vulnerable soil layers.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 215 | Utilities: | 0 |
| Construction: | 5,420 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,005 | | |
| Other: | 166 | | |
| Project Total: | 6,806 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|------------------------------|----------|------------|------------|-------------|--------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission, FEMA PDM | 33043200 | 737 | 424 | 200 | 5,345 | 100 | 0 | 0 | 5,645 | 0 | 6,806 |
| TOTALS: | | 737 | 424 | 200 | 5,345 | 100 | 0 | 0 | 5,645 | 0 | 6,806 |

All Values are presented in Thousands (1 x 1000)

Collector 6 Liquefaction Mitigation

Request #: WA07046

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund
Status: Active
Start Date: 07/01/2011
End Date: 06/30/2021

Description:

The project will address potential for structural failure by mitigating the potential for liquefaction induced lateral spread by ground improvements, structural upgrades, or through a combination of approaches. The goal of this project is to increase the Factor of safety for seismic events.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 5,147 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 553 | | |
| Other: | 285 | | |
| Project Total: | 5,985 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|------------|---------------|
| Water Transmission | 33043200 | 0 | 285 | 0 | 0 | 400 | 100 | 5,000 | 5,500 | 200 | 5,985 |
| TOTALS: | | 0 | 285 | 0 | 0 | 400 | 100 | 5,000 | 5,500 | 200 | 5,985 |

All Values are presented in Thousands (1 x 1000)

SCADA Software and Hardware

Request #: WA15007

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

The scope of the project is to upgrade SCADA workstations and software to current supported versions. Other objectives include upgrades to field components such as Programmable Logic Controllers and Remote Telemetry devices.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 750 | | |
| Project Total: | 750 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 750 |
| TOTALS: | | 0 | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 750 |

All Values are presented in Thousands (1 x 1000)

SCADA Upgrade

Request #: WA15005

Status: Partially Funded

| | |
|---|-------------------------------|
| Function: Development Services | Status: Active |
| Department: Water Agency | Start Date: 07/01/2014 |
| Division/Section: Water Transmission System - Common Facilities Fund | End Date: 06/30/2016 |

Description:

The scope of this project is to reassess and revamp programming standards to accommodate current technologies as well as implement these new standards to streamline maintenance and operations.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 1,250 | | |
| Project Total: | 1,250 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|---|
| Personnel: 0 Revenue/Refund: 0 |
|---|

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 1,250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,250 |
| TOTALS: | | 0 | 1,250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,250 |

All Values are presented in Thousands (1 x 1000)

Seismic Hazard Mitigation at River Diversion Structure - Structural

Request #: WA15001

Status: Partially Funded

| | | | |
|--------------------------|--|--------------------|------------|
| Function: | Development Services | Status: | Request |
| Department: | Water Agency | Start Date: | 07/01/2017 |
| Division/Section: | Water Transmission System - Common Facilities Fund | End Date: | 06/30/2019 |

Description:

This natural hazard reliability project will retrofit the pumphouse portin of the River Diversion Structure to midigate the risk of structural failure durring a major earthquake.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,590 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 500 | | |
| Other: | 300 | | |
| Project Total: | 3,390 | OM Total: | 0 |

Net Impact On Operating Budget:

| |
|---|
| Personnel: 0 Revenue/Refund: 0 |
|---|

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043200 | 0 | 0 | 0 | 275 | 250 | 2,785 | 80 | 3,390 | 0 | 3,390 |
| TOTALS: | | 0 | 0 | 0 | 275 | 250 | 2,785 | 80 | 3,390 | 0 | 3,390 |

All Values are presented in Thousands (1 x 1000)

Seismic Hazard Mitigation at the Russian River Crossing

Request #: WA09055

Status: Partially Funded/Funded by Others

Function: Development Services

Status: Active

Department: Water Agency

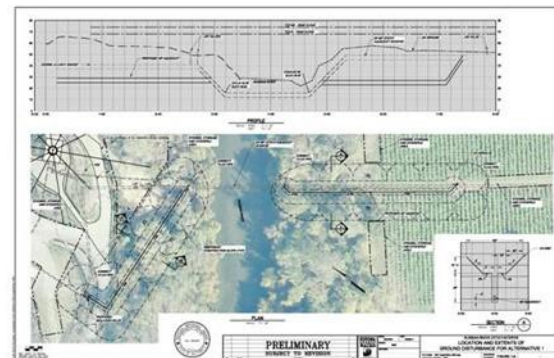
Start Date: 04/01/2011

Division/Section: Water Transmission System - Common Facilities Fund

End Date: 06/30/2017

Description:

Project will mitigate pipe failure due to liquefaction induced lateral spread by lowering at-risk portions of the pipe below liquefiable soil layers.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 191 | Utilities: | 0 |
| Construction: | 4,640 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 991 | | |
| Other: | 209 | | |
| Project Total: | 6,032 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|------------------------------|----------|------------|------------|-------------|--------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission, FEMA PDM | 33043200 | 665 | 376 | 320 | 4,670 | 0 | 0 | 0 | 4,990 | 0 | 6,032 |
| TOTALS: | | 665 | 376 | 320 | 4,670 | 0 | 0 | 0 | 4,990 | 0 | 6,032 |

All Values are presented in Thousands (1 x 1000)

Dry Creek Habitat Enhancement (Miles 4 - 6)

Request #: WA14025

Status: Unfunded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Common Facilities Fund

Status: Active
Start Date: 07/01/2015
End Date: 06/30/2023



Description:

To address fish habitat issues associated with high flows in Dry Creek, as indicated in the Biological Opinion, this project will construct modifications designed to enhance fish habitat in Dry Creek while accommodating stream flows necessary to support water supply.

| Project Cost | | O and M Cost | |
|-----------------------|---------------|------------------|----------|
| Acquisition: | 2,150 | Utilities: | 0 |
| Construction: | 22,000 | Maintenance: | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 5,040 | | |
| Other: | 810 | | |
| Project Total: | 30,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|--------------|--------------|-------------|-------------|--------------|---------------|---------------|--------------|---------------|
| Water Transmission | 33043200 | 0 | 3,000 | 1,000 | 732 | 675 | 6,621 | 16,072 | 25,100 | 1,900 | 30,000 |
| TOTALS: | | 0 | 3,000 | 1,000 | 732 | 675 | 6,621 | 16,072 | 25,100 | 1,900 | 30,000 |

All Values are presented in Thousands (1 x 1000)

Westside Facility

Request #: WA07045

Status: Funded

Function: Development Services **Status:** Active
Department: Water Agency **Start Date:** 07/01/2011
Division/Section: Water Transmission System - Common Facilities Fund/General **End Date:** 06/30/2016

Description:

Construct a multi-purpose building facility adjacent the Russian River, at Westside Road and the Wohler Bridge, including public education, fisheries, and public restroom facilities.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,424 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 407 | | |
| Other: | 105 | | |
| Project Total: | 2,936 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|------------|--------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| General Fund | 33010100 | 254 | 1,702 | 80 | 0 | 0 | 0 | 0 | 80 | 0 | 2,036 |
| Water Transmission | 33043200 | 305 | 595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 900 |
| TOTALS: | | 559 | 2,297 | 80 | 0 | 0 | 0 | 0 | 80 | 0 | 2,936 |

All Values are presented in Thousands (1 x 1000)

MSN C2 - Hwy 101 HOV Lane (Lakeville to Old Redwood Hwy)

Request #: WA14026

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2018

Description:

Relocate existing 33" Petaluma Aqueduct crossing under Highway 101 (at Railroad crossing) to accommodate Caltrans HOV lane project.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 140 | Utilities: | 0 |
| Construction: | 3,485 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 330 | | |
| Other: | 145 | | |
| Project Total: | 4,100 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|--------------|-------------|--------------|------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 0 | 50 | 50 | 4,000 | 0 | 4,100 | 0 | 4,100 |
| TOTALS: | | 0 | 0 | 0 | 50 | 50 | 4,000 | 0 | 4,100 | 0 | 4,100 |

All Values are presented in Thousands (1 x 1000)

SBS Storage Building

Request #: WA14008

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2018

Description:

Provide a pre-engineered metal storage building at the site of the Sonoma Booster Pump Station for maintenance related operations.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 220 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 25 | | |
| Other: | 10 | | |
| Project Total: | 255 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33043100 | 5 | 150 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 255 |
| TOTALS: | | 5 | 150 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 255 |

All Values are presented in Thousands (1 x 1000)

Sonoma Booster Pump Station Upgrade

Request #: WA08062

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2017

Description:

This project is a natural hazard reliability project to replace two pipelines in the vicinity of the Sonoma Booster Station, a 20-inch diameter pipeline along the Sonoma Aqueduct and a 24-inch diameter pipeline along the Oakmont pipeline with lengths to be determined. The replacement pipelines are designed to increase system reliability where they cross the Bennett Valley fault system and to withstand a major seismic event without rupture.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 11 | Utilities: | 0 |
| Construction: | 5,580 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 891 | | |
| Other: | 12 | | |
| Project Total: | 6,494 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|---------|------------|------------|--------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission | | 269 | 375 | 5,710 | 140 | 0 | 0 | 0 | 5,850 | 0 | 6,494 |
| TOTALS: | | 269 | 375 | 5,710 | 140 | 0 | 0 | 0 | 5,850 | 0 | 6,494 |

All Values are presented in Thousands (1 x 1000)

Bennett Valley Fault Crossing

Request #: WA10106

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2020



Description:

Implement measures to mitigate the risk of pipeline rupture in the vicinity where the Sonoma Aqueduct and Oakmont Pipeline traverse the Bennett Valley Fault in Rincon Valley.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 80 | Utilities: | 0 |
| Construction: | 3,200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 680 | | |
| Other: | 40 | | |
| Project Total: | 4,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 100 | 50 | 300 | 350 | 3,200 | 4,000 | 0 | 4,000 |
| TOTALS: | | 0 | 0 | 100 | 50 | 300 | 350 | 3,200 | 4,000 | 0 | 4,000 |

All Values are presented in Thousands (1 x 1000)

Calabasas Creek Crossing

Request #: WA15002

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2019
End Date: 06/30/2023



Description:

The 20-inch Sonoma aquaduct crosses Calabasas Creek near Sylvia drive off Sonoma Highway in Glen Ellen. The location has very high susceptibility to liquefaction and a high susceptibility to lateral spread hazard. The overall lateral spread potential is high with approximately 3 feet of lateral spread at the location of the pipeline. As a result, the pipeline has a high risk of failure. This natural hazard reliability project will modify the pipeline crossing to mitigate the risk of rupture during a major earthquake.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 50 | Utilities: | 0 |
| Construction: | 2,000 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 400 | | |
| Other: | 50 | | |
| Project Total: | 2,500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 150 | 2,350 | 2,500 |
| TOTALS: | | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 150 | 2,350 | 2,500 |

All Values are presented in Thousands (1 x 1000)

Petaluma River Crossing (Petaluma Aqueduct)

Request #: WA14006

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2018
End Date: 06/30/2022



Description:

The 33-inch Petaluma aqueduct crosses the Petaluma River close to Highway 101. This crossing has a high susceptibility for liquefaction and lateral spread hazard with expected lateral spread displacements on the order of 3 feet. As a result, the existing pipeline has a high risk of failure. The new 33-inch diameter pipeline, with length to be determined, is a natural hazard reliability project that will be designed to withstand a major seismic event.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 250 | Utilities: | 0 |
| Construction: | 4,350 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 650 | | |
| Other: | 250 | | |
| Project Total: | 5,500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 0 | 0 | 0 | 100 | 600 | 700 | 4,800 | 5,500 |
| TOTALS: | | 0 | 0 | 0 | 0 | 0 | 100 | 600 | 700 | 4,800 | 5,500 |

All Values are presented in Thousands (1 x 1000)

Santa Rosa Creek Crossing

Request #: WA14003

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2018
End Date: 06/30/2022



Description:

The 36-inch Santa Rosa aqueduct crosses the Santa Rosa Creek near Sonoma Avenue. Although Santa Rosa Creek is deeply incised into the fan deposits at the pipeline undercrossing, the steep stream banks are above the groundwater level and composed predominately of fine-grained alluvial fan deposits. In addition, the creek has locally been modified. Due to the high level of ground shaking that can be expected from rupture on the nearby Rodgers Creek fault, local failure of stream banks could occur. The project proposes to relocate the existing pipeline away from the open stream channel with an alignment that remains within the public roadway, including a trenchless crossing beneath the Santa Rosa Creek culvert.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 80 | Utilities: | 0 |
| Construction: | 4,000 | Maintenance: | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 720 | | |
| Other: | 200 | | |
| Project Total: | 5,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|--------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 400 | 200 | 4,400 | 0 | 0 | 5,000 | 0 | 5,000 |
| TOTALS: | | 0 | 0 | 400 | 200 | 4,400 | 0 | 0 | 5,000 | 0 | 5,000 |

All Values are presented in Thousands (1 x 1000)

Sonoma Creek Crossing (Lawndale/Madrone)

Request #: WA14004

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2018
End Date: 06/30/2022



Description:

The Sonoma Aqueduct crosses Sonoma Creek both at Lawndale Road (20-inch diameter) and Madrone Road (16-inch diameter) off Sonoma Highway utilizing overhead spans (pedestrian bridge/steel truss) with structural connections that make the pipeline susceptible to failure during a major seismic event. Liquefaction and lateral spread displacements will likely cause the pipeline to fail due to minor differential movement or settlement. The proposed project is a natural hazard reliability project that will provide structural modifications to the support structures and pipeline in order to withstand a major seismic event.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 60 | Utilities: | 0 |
| Construction: | 1,200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 180 | | |
| Other: | 60 | | |
| Project Total: | 1,500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 0 | 0 | 0 | 100 | 150 | 250 | 1,250 | 1,500 |
| TOTALS: | | 0 | 0 | 0 | 0 | 0 | 100 | 150 | 250 | 1,250 | 1,500 |

All Values are presented in Thousands (1 x 1000)

Sonoma Creek Crossing (Verano Ave)

Request #: WA14005

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Pipeline Fund

Status: Request
Start Date: 07/01/2018
End Date: 06/30/2022



Description:

The 16-inch Sonoma aqueduct crosses Sonoma Creek near Verano Avenue off Sonoma Highway. The pipeline is suspended from the bridge deck. This location has a moderate to high susceptibility for liquefaction and a high susceptibility for lateral spread. The overall potential for lateral spread is also judged to be high at this location with lateral spread displacement on the order of 3 feet. As a result, the pipeline at this location is judged to be vulnerable with a high risk of failure. A new 16-inch pipeline, with length preliminarily estimated at up to 1000 feet of trenchless installation, is intended as a natural hazard reliability project designed to withstand a major seismic event. A smaller scale project to mitigate the hazard by adding flexibility to the pipeline joints may be determined to be feasible upon further investigation.

| Project Cost | | O and M Cost | |
|------------------|-------|--------------|---|
| Acquisition: | 100 | Utilities: | 0 |
| Construction: | 2,000 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 300 | | |
| Other: | 100 | | |
| Project Total: | 2,500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043100 | 0 | 0 | 0 | 0 | 0 | 150 | 200 | 350 | 2,150 | 2,500 |
| TOTALS: | | 0 | 0 | 0 | 0 | 0 | 150 | 200 | 350 | 2,150 | 2,500 |

All Values are presented in Thousands (1 x 1000)

Kawana to SBS Pipeline

Request #: WA96089**Status: Funded**

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Storage Fund

| | |
|--------------------|------------|
| Status: | Active |
| Start Date: | 07/01/2002 |
| End Date: | 06/30/2026 |

Description:

Pre-design engineering, gradient study and environmental impact assessment. Construction of approximately 3 miles of water transmission pipeline, between the Kawana Tanks, Ralphine Tanks, and the Sonoma Booster Pump Station. The pipeline will provide redundancy and reliability to the system should repairs or replacement be necessary or if a catastrophic event occurs.



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 597 | | |
| Other: | 250 | | |
| Project Total: | 847 | OM Total: | 0 |

Personnel: 0

Revenue/Refund: 0

Net Impact On Operating Budget:

[illegible]

All Values are presented in Thousands (1 x 1000)

Ralphine Tanks - Flow Thru Conversion

Request #: WA11072

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Storage Fund

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2017

Description:

Reconfigure piping connecting the four above ground steel water reservoirs at the Ralphine Tank farm to improve water circulation/turnover for enhanced water quality and provide surge protection.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 12 | Utilities: | 0 |
| Construction: | 1,130 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 265 | | |
| Other: | 25 | | |
| Project Total: | 1,431 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|--------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission | 33043000 | 8 | 322 | 0 | 1,100 | 0 | 0 | 0 | 1,100 | 0 | 1,431 |
| TOTALS: | | 8 | 322 | 0 | 1,100 | 0 | 0 | 0 | 1,100 | 0 | 1,431 |

All Values are presented in Thousands (1 x 1000)

Kastania Pipeline Relocation (Caltrans)

Request #: WA05070

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - Storage Fund

Status: Active
Start Date: 07/01/2010
End Date: 06/30/2016

Description:

Relocate approximately 3000 feet of the existing Petaluma Aqueduct in the vicinity of South Petaluma Blvd. and Kastania Rd. to facilitate Caltrans construction of a new freeway interchange.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 36 | Utilities: | 0 |
| Construction: | 146 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 369 | | |
| Other: | 9 | | |
| Project Total: | 560 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|------------------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission, CalTrans | 33043000 | 485 | 50 | 25 | 0 | 0 | 0 | 0 | 25 | 0 | 560 |
| TOTALS: | | 485 | 50 | 25 | 0 | 0 | 0 | 0 | 25 | 0 | 560 |

All Values are presented in Thousands (1 x 1000)

Collector 6 Chlorine Solution Lines

Request #: WA08050

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2016

Description:

Replace the existing chlorine solution pipelines between the Wohler plant and Collector 6 with a pipe material more resistant against corrosive degradation.



| Project Cost | | O and M Cost | |
|-----------------------|-----------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 74 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 10 | | |
| Other: | 0 | | |
| Project Total: | 84 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33040100 | 4 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| TOTALS: | | 4 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |

All Values are presented in Thousands (1 x 1000)

Cotati 3 Tank Coating Recoat

Request #: WA08061

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2021



Description:

To prevent corrosion, recoat interior and exterior surfaces of an 18 MG water reservoir (above ground welded steel tank) and replace cathodic protection system.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 3,800 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 300 | | |
| Other: | 0 | | |
| Project Total: | 4,100 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|------------|---------------|
| Water Transmission | 33040100 | 0 | 0 | 300 | 0 | 0 | 200 | 3,500 | 4,000 | 100 | 4,100 |
| TOTALS: | | 0 | 0 | 300 | 0 | 0 | 200 | 3,500 | 4,000 | 100 | 4,100 |

All Values are presented in Thousands (1 x 1000)

Forestville Tanks Recoat

Request #: WA14010

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Request
Start Date: 07/01/2014
End Date: 06/30/2016



Description:

This project will remove the interior and exterior coatings to reline and recoat the existing 1MG and 0.3MG Forestville Tanks with new epoxy coatings. The project will also include replacement of the cathodic protection system.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 451 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 48 | | |
| Other: | 2 | | |
| Project Total: | 500 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Water Transmission | 33043000 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |
| TOTALS: | | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |

All Values are presented in Thousands (1 x 1000)

Kastania Tank Recoat

Request #: WA09059

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2014
End Date: 06/30/2017



Description:

To prevent corrosion, recoat interior and exterior surfaces of a 12 MG water reservoir (above ground welded steel tank) and replace cathodic protection system, including removal of coal-tar interior coating.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 3,100 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 195 | | |
| Other: | 5 | | |
| Project Total: | 3,300 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|---------|-----------|------------|-------------|-------------|--------------|--------------|-------------|--------------|------------|---------------|
| Water Transmission | 675108 | 0 | 300 | 200 | 300 | 1,250 | 1,250 | 0 | 3,000 | 0 | 3,300 |
| TOTALS: | | 0 | 300 | 200 | 300 | 1,250 | 1,250 | 0 | 3,000 | 0 | 3,300 |

All Values are presented in Thousands (1 x 1000)

Mirabel Infiltration Ponds 2 & 3 Rehabilitation

Request #: WA10058

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2017



Description:

Rehabilitate the infiltration ground surface of Infiltration Ponds 2 & 3 at the Mirabel water production facility to remove silt and restore infiltration capacity.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 950 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 50 | | |
| Other: | 0 | | |
| Project Total: | 1,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|-----------|------------|--------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission | 33040100 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 1,000 |
| TOTALS: | | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 1,000 |

All Values are presented in Thousands (1 x 1000)

Petaluma Aqueduct Cathodic Protection

Request #: WA05066

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2009
End Date: 06/30/2018

Description:

Upgrade the Petaluma Aqueduct cathodic protection system to an impressed current system.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 72 | Utilities: | 0 |
| Construction: | 927 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 174 | | |
| Other: | 4 | | |
| Project Total: | 1,177 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 33040100 | 207 | 260 | 710 | 0 | 0 | 0 | 0 | 710 | 0 | 1,177 |
| TOTALS: | | 207 | 260 | 710 | 0 | 0 | 0 | 0 | 710 | 0 | 1,177 |

All Values are presented in Thousands (1 x 1000)

Russian River - Cotati Intertie Cathodic Protection

Request #: WA09065

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2017

Description:

Upgrade the Russian River - Cotati Intertie cathodic protection system to an impressed current system.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 25 | Utilities: | 0 |
| Construction: | 860 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 222 | | |
| Other: | 95 | | |
| Project Total: | 1,202 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|---------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Water Transmission | 675108 | 212 | 25 | 15 | 0 | 950 | 0 | 0 | 965 | 0 | 1,202 |
| TOTALS: | | 212 | 25 | 15 | 0 | 950 | 0 | 0 | 965 | 0 | 1,202 |

All Values are presented in Thousands (1 x 1000)

Santa Rosa Aqueduct Cathodic Protection

Request #: WA08064

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Transmission System - O&M Fund

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2017

Description:

Upgrade the Santa Rosa Aqueduct cathodic protection system to an impressed current system.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 45 | Utilities: | 0 |
| Construction: | 1,004 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 367 | | |
| Other: | 10 | | |
| Project Total: | 1,426 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| Water Transmission | 33040100 | 266 | 120 | 50 | 990 | 0 | 0 | 0 | 1,040 | 0 | 1,426 |
| TOTALS: | | 266 | 120 | 50 | 990 | 0 | 0 | 0 | 1,040 | 0 | 1,426 |

All Values are presented in Thousands (1 x 1000)

Current Five-Year Plan:

In this five-year plan, the Warm Springs Dam Fund will fund three projects representing three phases of the Dry Creek Habitat Enhancement project, which is part of the implementation of the Biological Opinion. The projects identified in this section of the plan meet the objectives of Water Supply Goals and Strategies and Flood Control Goals and Strategies of the Agency's Strategic Plan.

Changes from prior plans:

No new projects were added to the list of capital projects for the Russian River Projects, Recycled Water Fund, or Warm Springs Dam Fund in the F.Y. 2015-16 through F.Y. 2019-20 capital plan.

Dry Creek Habitat Enhancement Project (Mile 1)

Request #: WA05042

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Supply - Warm Springs Dam

Status: Active
Start Date: 07/01/2009
End Date: 06/30/2017



Description:

The Dry Creek Habitat Enhancement Project - MILE 1 is the first mile (demonstration reach) of a 3-6 mile enhancement project within the main stem of Dry Creek, as required by the 2008 NMFS Biological Opinion. The MILE 1 project site is located in and along Dry Creek from approximately ½ mile upstream of Lambert Bridge to ½ mile downstream of Lambert Bridge. The objective of the project is to increase the amount of high quality rearing habitat for juvenile coho and steelhead by implementing enhancement practices that emulate natural geomorphic effects. The primary enhancement approaches planned for the project include the following: Backwater Channels & Ponds; Constructed Riffles; Pool Enhancement; Winter Refuge Enhancement; Log Jams and Large Woody Debris Placement; Boulder Clusters; and Streambank Stabilization, Repair and Construction. The project will most likely require diversion of the creek during construction of some sections, local dewatering, earthwork, shoring, fish screening and relocation, and will likely have permit constraints that will limit work in the stream to a window of time between June 15th and October 15th. Access, staging, right-of-way and strict adherence to permit compliance will need to be considered for construction.

| Project Cost | | O and M Cost | |
|------------------|-------|--------------|---|
| Acquisition: | 715 | Utilities: | 0 |
| Construction: | 3,450 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,573 | | |
| Other: | 1,480 | | |
| Project Total: | 7,219 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Other | 33030100 | 6,462 | 110 | 486 | 161 | 0 | 0 | 0 | 647 | 0 | 7,219 |
| TOTALS: | | 6,462 | 110 | 486 | 161 | 0 | 0 | 0 | 647 | 0 | 7,219 |

Dry Creek Habitat Enhancement Project (Mile 2)

Request #: WA08043

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Supply - Warm Springs Dam

Status: Active
Start Date: 07/01/2012
End Date: 12/30/2018

Description:

As identified in the Russian River Biological Opinion (NMFS, 2008), the Dry Creek Habitat Enhancement Project -MILE 2 (Project) is the second phase of a 3-6 mile enhancement project within the main stem of Dry Creek. The Project site is within the Dry Creek channel and on private properties in an unincorporated area of Sonoma County, California. The objective of the Project is to increase the amount of high quality rearing habitat for juvenile coho and steelhead by implementing enhancement practices that emulate natural geomorphic effects. The primary enhancement approaches planned for the Project include, but are not limited to the following: Backwater Channels & Ponds; Constructed Riffles; Pool Enhancement; Winter Refuge Enhancement; Log Jams and Large Woody Debris Placement; Boulder Clusters; and Streambank Stabilization, Repair and Construction.

The project is currently in planning and design phases. When constructed the project will most likely require diversion of the creek during construction of some sections, local dewatering, earthwork, shoring, fish screening and relocation, and will likely have permit constraints that will limit work in the stream to a window of time between June 15th and October 15th. Access, staging, right-of-way and strict adherence to permit compliance will need to be considered for construction.

Net Impact On Operating Budget:



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 710 | Utilities: | 0 |
| Construction: | 6,412 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,623 | | |
| Other: | 636 | | |
| Project Total: | 9,381 | OM Total: | 0 |

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|--------------|------------|--------------|--------------|--------------|-------------|-------------|--------------|------------|---------------|
| Other | 33030100 | 1,404 | 500 | 1,885 | 3,952 | 1,639 | 0 | 0 | 7,477 | 0 | 9,381 |
| TOTALS: | | 1,404 | 500 | 1,885 | 3,952 | 1,639 | 0 | 0 | 7,477 | 0 | 9,381 |

Dry Creek Habitat Enhancement Project (Mile 3)

Request #: WA14023

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Water Supply - Warm Springs Dam

Status: Active
Start Date: 07/01/2012
End Date: 12/30/2018



Description:

As identified in the Russian River Biological Opinion (NMFS, 2008), the Dry Creek Habitat Enhancement Project -MILE 3 (Project) is the third phase of a 3-6 mile enhancement project within the main stem of Dry Creek. The Project site is within the Dry Creek channel and on private properties in an unincorporated area of Sonoma County, California. The objective of the Project is to increase the amount of high quality rearing habitat for juvenile coho and steelhead by implementing enhancement practices that emulate natural geomorphic effects. The primary enhancement approaches planned for the Project include, but are not limited to the following: Backwater Channels & Ponds; Constructed Riffles; Pool Enhancement; Winter Refuge Enhancement; Log Jams and Large Woody Debris Placement; Boulder Clusters; and Streambank Stabilization, Repair and Construction.

The mile 3 project is currently in planning and design phases. When constructed the project will most likely require diversion of the creek during construction of some sections, local dewatering, earthwork, shoring, fish screening and relocation, and will likely have permit constraints that will limit work in the stream to a window of time between June 15th and October 15th. Access, staging, right-of-way and strict adherence to permit compliance will need to be considered for construction.

Net Impact On Operating Budget:

| Project Cost | | O and M Cost | |
|-------------------------|-------|--------------------|---|
| Acquisition: | 673 | Utilities: | 0 |
| Construction: | 6,449 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,660 | | |
| Other: | 409 | | |
| Project Total: | 9,192 | OM Total: | 0 |

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Other | 33030100 | 1,202 | 246 | 1,512 | 4,710 | 1,522 | 0 | 0 | 7,744 | 0 | 9,192 |
| TOTALS: | | 1,202 | 246 | 1,512 | 4,710 | 1,522 | 0 | 0 | 7,744 | 0 | 9,192 |

Flood Control Zones

Current Five-Year Plan:

In this five-year plan, there are two projects identified for funding in Zone 1A, eight projects identified for funding in Zone 2A, and two projects identified for funding in Zone 3A. The Water Agency will not take the lead on all of these projects, but will provide administration services and funding for many of these projects through the flood control zones. Funding provided by partner entities are not included in the project costs presented in this plan. The projects identified in this section of the plan meet the Objectives of Flood Control Goals and Strategies of the Agency's Strategic Plan.

Changes from Prior Plans:

Zone 1A (Laguna-Mark-West Creek)

No new projects were added to the list of projects for Zone 1A in the F.Y. 2015-16 through F.Y. 2019-20 capital plan. The formerly identified Brush Creek 42A project has been withdrawn for feasibility, and in favor of a non-capital project alternative.

Zone 2A (Petaluma)

One new project, the Petaluma River Flood Control Project, was added to the list of projects for Zone 2A in the F.Y. 2015-16 through F.Y. 2019-20 capital plan. The formerly identified Corona Road Denman Reach (floodwall) project has been withdrawn and modified in scope within the Denman Reach Flood Terrace project.

Zone 3A (Valley of the Moon)

No new projects were added to the list of projects for Zone 3A in the F.Y. 2015-16 through F.Y. 2019-20 capital plan.

Copeland Creek Detention-Recharge & Habitat Restoration - Phase 1

Request #: WA07073

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Zone 1A Flood Control

Status: Active
Start Date: 07/01/2011
End Date: 06/30/2016

Description:

An integrated multi-benefit flood control & groundwater recharge project, including construction of detention-recharge elements adjacent Copeland Creek, upstream of Petaluma Hill Road, and habitat restoration downstream to Hwy 101. Phase 1 will implement instream restoration and perform the majority of design and CEQA for the project.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 10 | Utilities: | 0 |
| Construction: | 600 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 617 | | |
| Other: | 68 | | |
| Project Total: | 1,295 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Zone 1A, DWR | 33020100 | 599 | 221 | 275 | 200 | 0 | 0 | 0 | 475 | 0 | 1,295 |
| TOTALS: | | 599 | 221 | 275 | 200 | 0 | 0 | 0 | 475 | 0 | 1,295 |

Santa Rosa Creek Fish Ladder Repair

Request #: WA06074

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 1A Flood Control

Status: Active
Start Date: 07/01/2009
End Date: 06/30/2018

Description:

Repair inlet structure to the Santa Rosa Creek fish ladder to improve function. Currently Available funds will be used to design the project grant funding will be sought to construct the project.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 4 | Utilities: | 0 |
| Construction: | 200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 239 | | |
| Other: | 25 | | |
| Project Total: | 468 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 1A | 33020100 | 113 | 50 | 0 | 236 | 69 | 0 | 0 | 305 | 0 | 468 |
| TOTALS: | | 113 | 50 | 0 | 236 | 69 | 0 | 0 | 305 | 0 | 468 |

Adobe Creek Sediment Basin Design

Request #: WA08079

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Request
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

Funding agreement with Sonoma Resource Conservation District to design a sediment detention feature along Adobe Creek, upstream of the Casa Grande double box culvert.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 108 | | |
| Other: | 0 | | |
| Project Total: | 108 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| TOTALS: | | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |

Kelly Creek @Sunnyslope Avenue Pre-Design

Request #: WA08083

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Request
Start Date: 07/01/2014
End Date: 06/30/2016



Description:

Funding Agreement with City of Petaluma to comence design of a project to reduce localized flooding adversely affecting residential properties and structures adjacent to Kelly Creek downstream of Sunnyslope Avenue by reconnecting the natural, open stream portion of Kelly Creek flows and diverting the piped collection system to an appropriate facility; Improve water quality in the open channel of Kelly Creek by reconnecting the upstream flows from the open channel of Kelly Creek and diverting the contained culvert to the existing culverted system.

| Project Cost | | O and M Cost | |
|------------------|----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 62 | | |
| Other: | 0 | | |
| Project Total: | 62 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |
| TOTALS: | | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 |

Petaluma River (Corona Reach) Overflow Chl FS

Request #: WA08081

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Request
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

Funding Agreement with City of Petaluma to conduct cost/benefit feasibility analysis and model run for 1) a linear detention channel along the west side of Highway 101 from Corona Road overpass south along the old railroad right-of-way, and 2) modification of the Capri Creek confluence with Petaluma River to reduce flow obstruction.



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 122 | | |
| Other: | 0 | | |
| Project Total: | 122 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |
| TOTALS: | | 0 | 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 |

Petaluma River Flood Control Project

Request #: WA15017

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Active
Start Date: 07/01/2015
End Date: 06/30/2016

Description:

The Petaluma River Flood Control project included flood improvements to protect properties from a 100-year flood within a 3,600-foot section of the River from Lynch Creek downstream past the Lakeville Street Bridge. The Federally authorized project included an earthen trapezoidal channel transitioning downstream to a steel-pile-lined U-shape channel approximately 200 feet upstream of the Lakeville Street Bridge. Steel sheet-pile flood walls extend along Washington Creek. The project includes a concrete transition weir, two pump stations, two large mitigation sites, replacement of two vehicular bridges, removal of two railroad bridges, replacement of one mainline railroad bridge, and construction of a railroad spur line.

Remaining work includes approximately 200-feet of associated channel widening and transition; approximately 100 linear feet of sheet-pile floodwall in the vicinity of the Lakeville Street Bridge and SMART rail trestle; an embankment repair; and excavation of sediment on the channel bottom to restore design storm carrying capacity.

Zone 2A funds will provide a portion of the federally-required local match to complete the remaining work.

Net Impact On Operating Budget:



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 500 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 0 | | |
| Project Total: | 500 | OM Total: | 0 |

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 |
| TOTALS: | | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 |

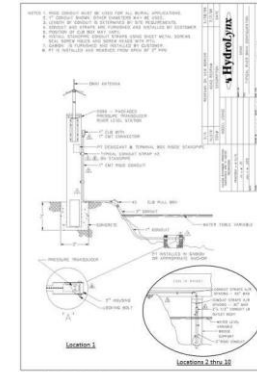
Petaluma River Watershed Stream Gauges

Request #: WA15016

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Active
Start Date: 07/01/2015
End Date: 06/30/2016



Description:

In accordance with the recommendation of the Natural Hazard Reliability Assessment, the purpose of this project is to enhance the capabilities to monitor real-time flow rates throughout the water transmission system. The project is currently defined by the scope of the Advanced Metering Infrastructure (AMI) Project, though additional elements to further enhance the “real-time” flow monitoring capabilities may be desirable for key locations and added in the future.

| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 160 | Maintenance: | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 16 | | |
| Other: | 0 | | |
| Project Total: | 176 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 |
| TOTALS: | | 0 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 |

Washington Creek Repair & Enhancement

Request #: WA08076

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Request
Start Date: 07/01/2014
End Date: 06/30/2016



Description:

Funding Agreement with City of Petaluma to implement structural repairs and cross-sectional modifications to the Washington Creek corridor to conserve, and where possible, increase flow capacity.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 129 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 33 | | |
| Other: | 18 | | |
| Project Total: | 180 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A | 33020200 | 0 | 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180 |
| TOTALS: | | 0 | 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 180 |

Capri Creek Flood Capacity & Habitat Enhancement

Request #: WA08080

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Active
Start Date: 07/01/2013
End Date: 12/30/2016



Description:

Funding Agreement with City of Petaluma to conduct design, CEQA, permitting, and grant administration activities for a multi-benefit flood reduction and habitat enhancement project in the Capri Creek sub-basin of the Petaluma watershed. The zone 2A unding provides for local matchservises foor a department of water providers, propostion 84 Grant that will fund construction of the project.

The Capri Creek Project will reduce out-of-bank flooding ta adjacent and downstram residential neighborhoods, improve ability to conduct routine maintenance, introduce a more natura habita within this reach and encourage enviornmental stewardship.

| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 227 | | |
| Other: | 0 | | |
| Project Total: | 227 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A, DWR | 33020200 | 0 | 227 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |
| TOTALS: | | 0 | 227 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 |

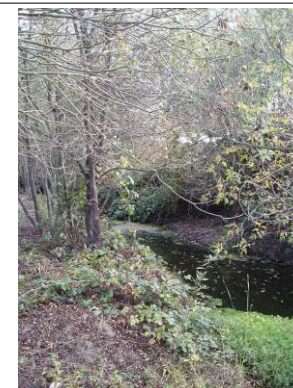
Denman Reach Flood Terrace

Request #: WA08077

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Zone 2A Flood Control

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2016



Description:

Funding Agreement with City of Petaluma to provide match funding to implement a floodplain modification project to reduce flooding along the Petaluma River. The Zone 2A funding provides for local match services for a department of Department of Water Resources (DWR) Urban Streams Restoration Grant that will help fund construction of the project.

Thw Denman Reach Project will continue the implamentation of the city'r River Acces and Enhancement and General Plan 2015 programs to increase storm water capacit of the Petaluma River and reduce the severity of localized flooding while improving riparian habitat and providing public access

| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 410 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 138 | | |
| Other: | 0 | | |
| Project Total: | 549 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 2A, DWR | 33020200 | 19 | 529 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 549 |
| TOTALS: | | 19 | 529 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 549 |

City Watersheds of Sonoma Valley - Phase 1

Request #: WA13101

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Zone 3A Flood Control

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2018



Description:

A multi-benefit project to provide flood hazard reduction within the Fryer Creek sub-watershed via construction of habitat restorations and enhancements, public trails, interpretive elements, and additional/modified drainage facilities.

The broader storage initiative, under which the City Watersheds project is being pursued has as its key objective to implement integrated multi-benefit stormwater projects that reduce flood hazard and enhance ground water recharge. This Phase 1 City Watershed project is funded under a DWR grant through Proposition 1E.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 39 | Utilities: | 0 |
| Construction: | 2,602 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,480 | | |
| Other: | 50 | | |
| Project Total: | 4,171 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|--------------|-------------|-------------|-------------|--------------|------------|---------------|
| Zone 3A, DWR | 33020300 | 482 | 889 | 0 | 2,500 | 300 | 0 | 0 | 2,800 | 0 | 4,171 |
| TOTALS: | | 482 | 889 | 0 | 2,500 | 300 | 0 | 0 | 2,800 | 0 | 4,171 |

Upper Sonoma Creek (Kenwood-Adobe) Project

Request #: WA04087

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Zone 3A Flood Control

Status: Active
Start Date: 07/01/2008
End Date: 06/30/2019



Description:

Funding agreement with Sonoma Ecology Center for pricing and design an integrated multi-benefit demonstration project to address flooding along Sonoma Creek from the Hwy 12 bridge in Kenwood to 0.5 miles downstream and the larger study area consisting of the entire contributing area (Adobe Canyon's alluvial fan). This project will provide a demonstration for future integrated water management projects regarding the integration of flood protection and groundwater recharge. It helps to fulfill the objectives of the Sonoma Creek and Tributaries Sediment TMDL, the Sonoma Valley Groundwater Management Plan, and the Sonoma Creek Watershed Enhancement Plan.

The funding agreement also provides some funds to support the vegetation management in the lower channel.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 20 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 659 | | |
| Other: | 0 | | |
| Project Total: | 679 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Zone 3A | 33020300 | 288 | 391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 679 |
| TOTALS: | | 288 | 391 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 679 |

Sanitation Districts/Zones

This five-year plan includes funding for 28 projects related to the sanitation zones and districts managed by the Water Agency. The projects in this section of the plan meet the objectives in Sanitation Goals and Strategies in the Water Agency's Strategic Plan.

Current Five-Year Plan for Airport-Larkfield-Wikiup Sanitation Zone:

In this five-year plan, there are three projects identified for funding in the Airport-Larkfield-Wikiup Sanitation Zone. No new projects were added to the F.Y. 2015-16 through F.Y.2019-20 capital plan.

Current Five-Year Plan for Geyserville Sanitation Zone:

In this five-year plan, there are two projects identified for funding in the Geyserville Sanitation Zone. One new project, consisting of the Force Main Improvement (Lift Station to Treatment Plant) was added to the F.Y. 2015-16 through F.Y.2019-20 capital plan.

Current Five-Year Plan for Occidental County Sanitation District:

In this five-year plan, there are three projects identified for funding in the Occidental County Sanitation District. No new projects were added to the F.Y. 2015-16 through F.Y.2019-20 capital plan, though the Recycled Water Project has replaced the formerly identified OCSD Permit Compliance Project.

Current Five-Year Plan for Pennngrove Sanitation Zone:

In this five-year plan, there are two projects identified for funding in the Pennngrove Sanitation Zone. One new project, consisting of future capital replacements that represent planned allocations for future capital projects to be identified, was added to the F.Y. 2015-16 through F.Y.2019-20 capital plan.

Current Five-Year Plan for Russian River County Sanitation District:

In this five-year plan, there are three projects identified for funding in the Russian River County Sanitation District. One new project, consisting of capital improvement projects that represent planned allocations for future capital projects to be identified, was added to the F.Y. 2015-16 through F.Y.2019-20 capital plan. The formerly identified Biological Nutrient Removal and Disinfection Upgrade projects were completed in 2014.

Current Five-Year Plan for Sea Ranch Sanitation Zone:

In this five-year plan, there is one project identified for funding in the Sea Ranch Sanitation Zone. The project, consisting of planned allocations for future capital replacements to be identified, was added to the F.Y. 2015-16 through F.Y.2019-20 capital plan.

Current Five-Year Plan for Sonoma Valley County Sanitation District:

In this five-year plan, there are 11 projects identified for funding in the Sonoma Valley County Sanitation District. One new project, consisting of future collection system replacement/rehabilitation projects to be identified, was added to the F.Y. 2015-16 through F.Y.2019-20 capital plan. The formerly identified New Recycled Water Service (McGill Road) project will be completed in 2015.

Current Five-Year Plan for South Park County Sanitation District:

In this five-year plan, there are three projects identified for funding in the South Park County Sanitation District. No new projects were added to the F.Y. 2015-16 through F.Y.2019-20 capital plan. The formerly identified Gloria/Meekland Collection System Replacement Project was completed in 2014.

Drain Improvement for Microfiltration Building

Request #: WA08010

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Airport-Larkfield-Wikiup Sanitation Zone

Status: Active
Start Date: 07/01/2015
End Date: 06/30/2016



Description:

Improve drainage in the vicinity of the filter building by installing new permanent storm drain piping to replace temporary drain piping.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 80 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 20 | | |
| Other: | 0 | | |
| Project Total: | 100 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| ALWSZ | 33100200 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 |
| TOTALS: | | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 |

Filter Modules Replacement

Request #: WA14027

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Airport-Larkfield-Wikiup Sanitation Zone

Status: Request
Start Date: 07/01/2017
End Date: 06/30/2020

Description:

Replace microfiltration filter modules at end of useful life.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 380 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 20 | | |
| Other: | 0 | | |
| Project Total: | 400 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| ALWSZ | 33100100 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 | 200 | 400 |
| TOTALS: | | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 | 200 | 400 |

South Pond Recirculation Pipeline

Request #: WA11005

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Airport-Larkfield-Wikiup Sanitation Zone

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2016



Description:

Construct new pipeline and pump at the treatment plant to recirculate secondary treated wastewater for tertiary treatment and improve suspended solids removal.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 878 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 151 | | |
| Other: | 6 | | |
| Project Total: | 1,034 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| ALWSZ | 33100200 | 34 | 600 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 1,034 |
| TOTALS: | | 34 | 600 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 1,034 |

Capital Replacement Projects

Request #: WA09011

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Geyserville Sanitation Zone

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2023

Description:

Construction of improvements to repair, rehabilitate, or replace portions of the collection and/or treatment systems that are deteriorated or have insufficient capacity for existing flows.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 85 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 20 | | |
| Other: | 0 | | |
| Project Total: | 105 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| GSZ | 33110200 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 75 | 30 | 105 |
| TOTALS: | | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 75 | 30 | 105 |

Force Main Improvement (Lift Station to Treatment Plant)

Request #: WA15018

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Geyserville Sanitation Zone

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2017

Description:

Construction of improvements to repair, rehabilitate, or replace the force main between the lift station and the treatment plant, or portions thereof.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 65 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 30 | | |
| Other: | 5 | | |
| Project Total: | 100 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| GSZ | 33110200 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 |
| TOTALS: | | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 |

Lift Station Upgrade

Request #: WA12016

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Occidental County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2015



Description:

Construction of improvements to repair or replace deteriorated portions of the existing wastewater lift station - primarily electrical system components.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 128 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 0 | | |
| Project Total: | 128 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| OCSD | 33060200 | 103 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| TOTALS: | | 103 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |

Lateral Replacement Project

Request #: WA12015

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Occidental County Sanitation Dist.

Status: Active
Start Date: 07/01/2009
End Date: 06/30/2016

Description:

A program to replace leaking laterals on private property to reduce inflow into the treatment plant.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 258 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 140 | | |
| Other: | 0 | | |
| Project Total: | 399 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| OCSD | 33060100 | 199 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 399 |
| TOTALS: | | 199 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 399 |

Recycled Water Project

Request #: WA14020

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Occidental County Sanitation Dist.

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2018

Description:

Construction of improvements to the treatment, storage, and recycled water distribution systems to operate the overall system in compliance with applicable NPDES permit requirements.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 275 | Utilities: | 0 |
| Construction: | 4,450 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 1,110 | | |
| Other: | 358 | | |
| Project Total: | 6,193 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| OCSD | 33060200 | 18 | 650 | 600 | 4,600 | 325 | 0 | 0 | 5,525 | 0 | 6,193 |
| TOTALS: | | 18 | 650 | 600 | 4,600 | 325 | 0 | 0 | 5,525 | 0 | 6,193 |

Future Capital Replacements

Request #: WA15003

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Pennngrove Sanitation Zone

Status: Request
Start Date: 7/1/2016
End Date: 06/30/2023

Description:

Construct improvements to repair, rehabilitate, or replace portions of the collection and/or pumping system that are determined or known to have insufficient capacity for existing flows



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 10 | Utilities: | 0 |
| Construction: | 125 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 35 | | |
| Other: | 10 | | |
| Project Total: | 180 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| PSZ | 33120200 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 120 | 60 | 180 |
| TOTALS: | | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 120 | 60 | 180 |

Lift Station Motor Control Center Upgrade

Request #: WA12018

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Pennngrove Sanitation Zone

Status: Request
Start Date: 07/01/2013
End Date: 06/30/2015

Description:

Replacement of Motor Control Center Cabinets in the Lift Station. To facilitate future pump upgrades safeguard against flooding.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 355 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 200 | | |
| Other: | 85 | | |
| Project Total: | 640 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| PSZ | 33120100 | 0 | 0 | 285 | 355 | 0 | 0 | 0 | 640 | 0 | 640 |
| TOTALS: | | 0 | 0 | 285 | 355 | 0 | 0 | 0 | 640 | 0 | 640 |

Capital Improvement Projects

Request #: WA15020

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Russian River County Sanitation Dist.

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2026

Description:

Construction of improvements to repair, rehabilitate, or replace the force main between the lift station and the treatment plant, or portions thereof.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 100 | Utilities: | 0 |
| Construction: | 4,200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 750 | | |
| Other: | 250 | | |
| Project Total: | 5,300 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|---------------|
| RRCSA | 330702000 | 0 | 0 | 200 | 200 | 200 | 200 | 200 | 1,000 | 4,300 | 5,300 |
| TOTALS: | | 0 | 0 | 200 | 200 | 200 | 200 | 200 | 1,000 | 4,300 | 5,300 |

Vacation Beach Lift Station Improvements

Request #: WA08022

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Russian River County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2016

Description:

Replace deteriorated portions of the piping/pumping equipment at the Vacation Beach Lift Station to reduce the risks of failures, leaks, and spills.



| Project Cost | | O and M Cost | |
|------------------|-----|--------------|---|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 100 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 0 | | |
| Project Total: | 100 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| RRCSA | 33070200 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| TOTALS: | | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |

Irrigation Reliability and Beneficial Reuse

Request #: WA18023

Status: Partially Funded

Function: Development Services

Status: Request

Department: Water Agency

Start Date: 07/01/2006

Division/Section: Russian River County Sanitation Dist.

End Date: 06/30/2025

Description:

Construct pumping, piping, and storage improvements to the wastewater reclamation system and increase beneficial reuse of recycled water.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 400 | Utilities: | 0 |
| Construction: | 7,561 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 950 | | |
| Other: | 650 | | |
| Project Total: | 9,561 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|---------------|
| Other | 33070200 | 681 | 30 | 30 | 30 | 30 | 30 | 30 | 150 | 8,700 | 9,561 |
| TOTALS: | | 681 | 30 | 30 | 30 | 30 | 30 | 30 | 150 | 8,700 | 9,561 |

Future Capital Replacements

Request #: WA08025

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sea Ranch Sanitation Zone

Status: Request
Start Date: 07/01/2013
End Date: 06/30/2020

Description:

Construction of improvements to repair, rehabilitate, or replace portions of the collection and/or treatment systems that are deteriorated or have insufficient capacity for existing flows.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 40 | | |
| Other: | 0 | | |
| Project Total: | 240 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| SRSZ | 33130200 | 0 | 40 | 40 | 40 | 40 | 40 | 40 | 200 | 0 | 240 |
| TOTALS: | | 0 | 40 | 40 | 40 | 40 | 40 | 40 | 200 | 0 | 240 |

Chlorine Contact Chamber Coating

Request #: WA08027

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2016



Description:

Provide a protective interior coating for the concrete chlorine contact basin at the wastewater treatment plant to seal the basin and inhibit the degradation of the concrete and reinforcing steel.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 360 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 90 | | |
| Other: | 0 | | |
| Project Total: | 450 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SVCSO | 33080100 | 70 | 380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 |
| TOTALS: | | 70 | 380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 |

Collection System Creek Crossings

Request #: WA11026

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2011
End Date: 06/30/2017

Description:

Upgrade collection system pipe crossings at waterways to prevent damage during high stream flow events.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 21 | Utilities: | 0 |
| Construction: | 336 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 218 | | |
| Other: | 157 | | |
| Project Total: | 732 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SVCS | 33080100 | 207 | 165 | 0 | 360 | 0 | 0 | 0 | 360 | 0 | 732 |
| TOTALS: | | 207 | 165 | 0 | 360 | 0 | 0 | 0 | 360 | 0 | 732 |

Future Collection System Replacements/Rehabilitation

Request #: WA15021

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Request
Start Date: 07/01/2017
End Date: 06/30/2023

Description:

Replace and/or Rehabilitate collection system, pipe and related infrastructure to reduce inflows and infiltration into the system.



| Project Cost | | O and M Cost | |
|-----------------------|---------------|------------------|----------|
| Acquisition: | 500 | Utilities: | 0 |
| Construction: | 9,000 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 2,000 | | |
| Other: | 500 | | |
| Project Total: | 12,000 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SVCS | 33080200 | 0 | 0 | 0 | 0 | 3,000 | 0 | 3,000 | 6,000 | 6,000 | 12,000 |
| TOTALS: | | 0 | 0 | 0 | 0 | 3,000 | 0 | 3,000 | 6,000 | 6,000 | 12,000 |

Reline Equalization Ponds

Request #: WA08032

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2018

Description:

Replace the impermeable liners for the existing equalization basins at the wastewater treatment plant to prevent seepage out of the basins.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 1,534 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 152 | | |
| Other: | 7 | | |
| Project Total: | 1,693 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|--------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| SVCS | 33080200 | 16 | 76 | 1,000 | 0 | 600 | 0 | 0 | 1,601 | 0 | 1,693 |
| TOTALS: | | 16 | 76 | 1,000 | 0 | 600 | 0 | 0 | 1,601 | 0 | 1,693 |

Sonoma Creek Bank Repair

Request #: WA14021

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2016



Description:

Implement measures to stabilize a failing stream bank and protect existing sewer pipes located along Sonoma Creek in Glen Ellen area, south of Kohler Creek confluence.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 17 | Utilities: | 0 |
| Construction: | 393 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 111 | | |
| Other: | 45 | | |
| Project Total: | 566 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SVCS | 33080100 | 71 | 400 | 95 | 0 | 0 | 0 | 0 | 95 | 0 | 566 |
| TOTALS: | | 71 | 400 | 95 | 0 | 0 | 0 | 0 | 95 | 0 | 566 |

Trunk Sewer Replacement MH90-3 to MH 136-5

Request #: WA09030

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2008
End Date: 06/30/2012

Description:

The existing 21-inch Reinforced Concrete Pipe trunk sewer, and its appurtenant manholes, was constructed around 1958. This project will replace approximately 9,100 feet of the sewer trunk and appurtenance manholes with new 27-inch diameter sewer trunk from the intersection of 6th St. West at Studley St. to Happy Lane, including a double siphon crossing of Agua Caliente Creek. The overall project has been split into 3 segments of roughly the same size, in addition to a separate segment for the crossing of Agua Caliente Creek. The 2001 Sonoma Valley County Sanitation District wet Weather Sewer Analysis of the existing trunk system found that much of the existing sewer trunk is inadequately sized to carry the discharge for future District buildout plus the inflow and infiltration from a 20-year frequency design storm. Additionally, the original RCP trunk sewer is reaching the end of its service life.



| Project Cost | | O and M Cost | |
|-----------------------|---------------|------------------|----------|
| Acquisition: | 1,300 | Utilities: | 0 |
| Construction: | 15,405 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 2,700 | | |
| Other: | 651 | | |
| Project Total: | 20,055 | OM Total: | 0 |

Net Impact On Operating Budget:

NOTE THE AGUA CREEK PART GOT REBUDGETED 47300

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|--------------|--------------|-------------|--------------|-------------|--------------|-------------|---------------|--------------|---------------|
| SVCSD | 33080200 | 1,417 | 3,363 | 660 | 4,930 | 595 | 5,440 | 400 | 12,025 | 3,250 | 20,055 |
| TOTALS: | | 1,417 | 3,363 | 660 | 4,930 | 595 | 5,440 | 400 | 12,025 | 3,250 | 20,055 |

Sonoma Valley Recycled Water Project (5th St. E - Denmark St.)

Request #: WA12103

Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2017

Description:

Construct new recycled water distribution piping along Fifth Street East and connecting portions of Watmaugh Road and Denmark Street. Pipeline will provide urban reuse to 3 school and one city park, as well as agricultural irrigation.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 33 | Utilities: | 0 |
| Construction: | 2,556 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 383 | | |
| Other: | 20 | | |
| Project Total: | 2,992 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|--------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| SVCSO, DWR | 33080200 | 222 | 185 | 2,500 | 85 | 0 | 0 | 0 | 2,585 | 0 | 2,992 |
| TOTALS: | | 222 | 185 | 2,500 | 85 | 0 | 0 | 0 | 2,585 | 0 | 2,992 |

WWTP Pump and Piping Upgrade

Request #: WA11034

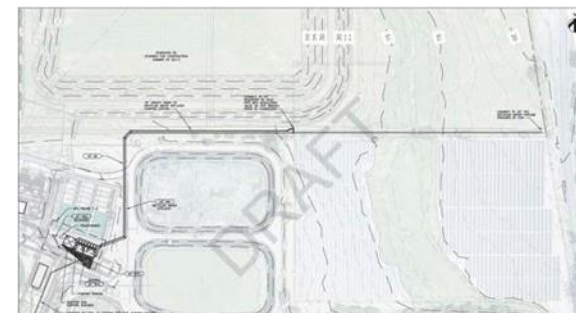
Status: Funded/Funded by Others

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2010
End Date: 06/30/2017

Description:

Construct pumping and piping upgrades at the wastewater treatment plant in order to increase quantity and flexibility for pumping recycled water to storage reservoirs, existing recycled water users, the Napa Salt Marsh, and new recycled water users located north of the treatment plant.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 1,872 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 736 | | |
| Other: | 16 | | |
| Project Total: | 2,624 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| SVCSD, BOR | 33080200 | 618 | 1,806 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 2,624 |
| TOTALS: | | 618 | 1,806 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 2,624 |

Sonoma Valley Recycled Water Project (8th St. East, WWTP to Napa Rd.)

Request #: WA11036

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Request
Start Date: 07/01/2016
End Date: 06/30/2017

Description:

Construct new recycled water distribution piping along Eighth Street East, from the wastewater treatment plant north to Napa Road.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,000 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 400 | | |
| Other: | 0 | | |
| Project Total: | 2,400 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|--------------|-------------|-------------|--------------|------------|---------------|
| Other | 33080200 | 0 | 0 | 0 | 400 | 2,000 | 0 | 0 | 2,400 | 0 | 2,400 |
| TOTALS: | | 0 | 0 | 0 | 400 | 2,000 | 0 | 0 | 2,400 | 0 | 2,400 |

Sonoma Valley Recycled Water Project (Watmaugh to Arnold)

Request #: WA09035

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2017

Description:

Construct new recycled water distribution piping along Watmaugh Road, from east of Broadway to Arnold Drive. Current efforts are limmited to planning and coordination at th sonoma creek crossing



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,200 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 420 | | |
| Other: | 0 | | |
| Project Total: | 2,620 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|--------------|---------------|
| SVCS | 33080200 | 2 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 2,400 | 2,620 |
| TOTALS: | | 2 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 2,400 | 2,620 |

Sonoma Valley Recycled Water Project (Napa Rd., E of 8th St. East)

Request #: WA14024

Status: Unfunded

Function: Development Services
Department: Water Agency
Division/Section: Sonoma Valley County Sanitation Dist.

Status: Request
Start Date: 07/01/2017
End Date: 06/30/2020

Description:

Construct new recycled water distribution piping along Napa Road, east of 8th Street East.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 2,000 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 400 | | |
| Other: | 0 | | |
| Project Total: | 2,400 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SVCSD | 33080200 | 0 | 0 | 0 | 0 | 200 | 200 | 2,000 | 2,400 | 0 | 2,400 |
| TOTALS: | | 0 | 0 | 0 | 0 | 200 | 200 | 2,000 | 2,400 | 0 | 2,400 |

Blackwell Tract Collection System Replacement

Request #: WA05040

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: South Park County Sanitation Dist.

Status: Request
Start Date: 07/01/2009
End Date: 06/30/2019

Description:

Replace approximately 5600 feet of existing 6-inch Vitrified Clay Pipe (VCP) and Asbestos Cement Pipe (ACP) sewer mains and appurtenant laterals, manholes, and main line cleanouts with new 8-inch plastic sewer pipe, laterals, mainline cleanouts, and precast concrete manholes. Additionally, approximately 580 feet of existing 4-inch water main and appurtenance will be replaced with 8-inch plastic water through an agreement with the City of Santa Rosa. The existing sewer facilities were originally constructed in approximately the mid-1950's.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 57 | Utilities: | 0 |
| Construction: | 3,400 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 483 | | |
| Other: | 14 | | |
| Project Total: | 3,954 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|--------------|-------------|-------------|--------------|------------|---------------|
| SPCSD | 33090200 | 168 | 245 | 0 | 400 | 3,000 | 140 | 0 | 3,540 | 0 | 3,954 |
| TOTALS: | | 168 | 245 | 0 | 400 | 3,000 | 140 | 0 | 3,540 | 0 | 3,954 |

East Robles Collection System Replacement

Request #: WA11037

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: South Park County Sanitation Dist.

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2017

Description:

This project will replace approximately 3000 feet of deteriorated and sub-standard sewer collection system piping and appurtenances in the vicinity of E. Robles Ave.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 53 | Utilities: | 0 |
| Construction: | 1,410 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 260 | | |
| Other: | 32 | | |
| Project Total: | 1,755 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|-----------|--------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SPCSD | 33090200 | 5 | 1,726 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 1,755 |
| TOTALS: | | 5 | 1,726 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 1,755 |

West Robles Collection System Replacement

Request #: WA11038

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: South Park County Sanitation Dist.

Status: Active
Start Date: 07/01/2012
End Date: 06/30/2017

Description:

Replace existing collection system pipelines and appurtenances that are deteriorated along an approximate 500 foot length of West Robles Drive, east of Moorland Avenue.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 455 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 303 | | |
| Other: | 10 | | |
| Project Total: | 767 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| SPCSD | 33090200 | 167 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 767 |
| TOTALS: | | 167 | 600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 767 |

Administration and General

Current Five-Year Plan:

This five year capital plan includes no General Fund projects, no Spring Lake Park Fund projects, and one Sustainability-Renewable Energy Fund project.

The projects identified in this section of the plan meet the objectives in Water Supply, Sanitation, and/or Energy Goals and Strategies of the Agency's Strategic Plan.

Changes from prior plan:

No new projects were added to the list of projects for Administration and General Funds in the F.Y. 2015-16 through F.Y. 2019-20 capital plan. The formerly identified Composting Toilets Pilot Study was withdrawn for feasibility.

Biomass Conversion

Request #: WA11004

Status: Partially Funded

Function: Development Services

Status: Active

Department: Water Agency

Start Date: 07/01/2012

Division/Section: General Fund

End Date: 06/30/2016

Description:

Investigate conversion of locally available biomass into energy.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 4 | Utilities: | 0 |
| Construction: | 55 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 49 | | |
| Other: | 188 | | |
| Project Total: | 295 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|--------------------------------------|---------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Sustainability-Renewable Energy Fund | | 183 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 295 |
| TOTALS: | | 183 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 295 |

All Values are presented in Thousands (1 x 1000)

Internal Service

Current Five-Year Plan:

In this five-year plan, there are eight projects identified for funding in the Internal Services Fund, including three Facilities Fund projects and five Power Resources Fund projects.

Changes from prior plans:

Four new Power Resources Fund Projects, consisting of Energy Storage, Russian River Main Lift PWRPA 12kV Power Distribution, Sonoma Valley R4 PWRPA Power Distribution, and SVTP RPS Meter, were added to the list of projects for Internal Services Fund in the F.Y. 2015-16 through F.Y. 2019-20 capital plan. The formerly identified Sea Ranch Solar PV project was withdrawn for feasibility.

404 Aviation Blvd Roof

Request #: WA12345

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 03/01/2012
End Date: 06/30/2016

Description:

Re-Roof the administration building 404 Aviation Boulevard with new roofing membrane. Photo Voltaic panels will need to be removed and re-installed. Existing roofing will be removed and new applied.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 2 | Utilities: | 0 |
| Construction: | 1,149 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 205 | | |
| Other: | 30 | | |
| Project Total: | 1,386 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|----------|------------|--------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Facilities Fund | 33050200 | 237 | 1,149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,386 |
| TOTALS: | | 237 | 1,149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,386 |

Energy Storage

Request #: WA15022

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Request
Start Date: 07/01/2015
End Date: 06/30/2017

Description:

Evaluate energy storage adequate for optimizing intermittent source generation.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 0 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 0 | | |
| Other: | 380 | | |
| Project Total: | 380 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Power Resources | 33050300 | 0 | 0 | 380 | 0 | 0 | 0 | 0 | 380 | 0 | 380 |
| TOTALS: | | 0 | 0 | 380 | 0 | 0 | 0 | 0 | 380 | 0 | 380 |

Geyserville Solar PV

Request #: WA14015

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 07/01/2013
End Date: 06/30/2015



Description:

Construct a 60kW solar photovoltaic power system to provide approximately 80% of the treatment plant's electrical energy consumption.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 250 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 57 | | |
| Other: | 0 | | |
| Project Total: | 307 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Power Resources | 33050300 | 7 | 250 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 307 |
| TOTALS: | | 7 | 250 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 307 |

Russian River Main Lift PWRPA 12 kV Power Distribution

Request #: WA15024

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

Construct electrical improvements at the main lift station in order to provide power supplied through PWRPA.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 150 | Maintenance: | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 43 | | |
| Other: | 0 | | |
| Project Total: | 193 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Power Resources | 330503300 | 0 | 43 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 193 |
| TOTALS: | | 0 | 43 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 193 |

Service Center Parking Lot

Request #: WA13107

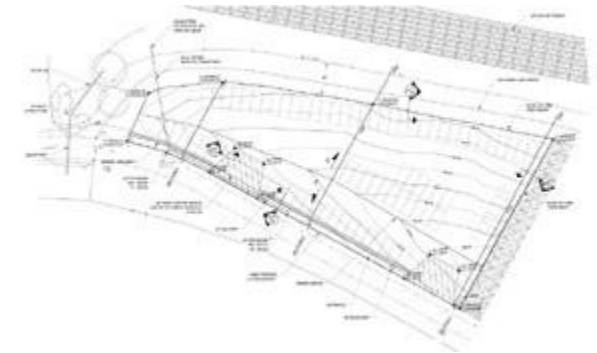
Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 01/01/2013
End Date: 06/30/2016

Description:

Construction of parking facilities at the Airport Treatment plant for the Water Agency's maintenance service center.



| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 943 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 125 | | |
| Other: | 10 | | |
| Project Total: | 1,077 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| Facilities Fund | 33050200 | 464 | 613 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,077 |
| TOTALS: | | 464 | 613 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,077 |

Sonoma Valley R4 PWRPA 12kV Power Distribution

Request #: WA15025

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 07/01/2014
End Date: 06/30/2016

Description:

Construct electrical improvements at the main lift station in order to provide power supplied through PWRPA.



| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 135 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 72 | | |
| Other: | 0 | | |
| Project Total: | 207 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Power Resources | 333050300 | 0 | 72 | 135 | 0 | 0 | 0 | 0 | 135 | 0 | 207 |
| TOTALS: | | 0 | 72 | 135 | 0 | 0 | 0 | 0 | 135 | 0 | 207 |

SVTP RPS Meter

Request #: WA15023

Status: Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Request
Start Date: 07/06/2015
End Date: 06/30/2016



Description:

Instal Metering Equipment Associated with the Photo voltaic array located at the Sonoma Valley Waste Water Treatment Plant.

| Project Cost | | O and M Cost | |
|-----------------------|------------|------------------|----------|
| Acquisition: | 4 | Utilities: | 0 |
| Construction: | 135 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 104 | | |
| Other: | 5 | | |
| Project Total: | 248 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|
| Power Resources | 333050300 | 0 | 0 | 248 | 0 | 0 | 0 | 0 | 248 | 0 | 248 |
| TOTALS: | | 0 | 0 | 248 | 0 | 0 | 0 | 0 | 248 | 0 | 248 |

Water Smart Demonstration Project

Request #: WA14018

Status: Partially Funded

Function: Development Services
Department: Water Agency
Division/Section: Internal Services Fund

Status: Active
Start Date: 07/01/2010
End Date: 06/30/2020



Description:

Construct site improvements to retrofit the administration and O&M facilities with Best Management Practices for stormwater management. The project will be implemented in phases, as funds are available.

| Project Cost | | O and M Cost | |
|-----------------------|--------------|------------------|----------|
| Acquisition: | 0 | Utilities: | 0 |
| Construction: | 1,300 | Maintenance | 0 |
| Furniture/Reloc: | 0 | Other: | 0 |
| Design/PM: | 309 | | |
| Other: | 5 | | |
| Project Total: | 1,614 | OM Total: | 0 |

Net Impact On Operating Budget:

Personnel: 0
Revenue/Refund: 0

| Funding Source | Dept ID | Prior FYs | Current FY | FY1 2015-16 | FY2 2016-17 | FY3 2017-18 | FY4 2018-19 | FY5 2019-20 | 5YR Total | Future YRs | Project Total |
|-----------------|----------|------------|------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|---------------|
| Facilities Fund | 33050200 | 214 | 39 | 0 | 200 | 201 | 320 | 320 | 1,041 | 320 | 1,614 |
| TOTALS: | | 214 | 39 | 0 | 200 | 201 | 320 | 320 | 1,041 | 320 | 1,614 |